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ABSTRACT

Doctoral enrollment and graduation patterns at Canadian universities during the 1970s and projections for the 1980s are presented. Attention is directed to full-time and part-time doctoral enrollment by eight fields of study, and 26 disciplines are examined for the 10-year period of 1970-71 to 1979-80. Breakdowns by region and by selected universities and characteristics of doctoral students, such as legal status, citizenship, and sex, are indicated. Additionally, doctoral graduation patterns between 1970-71 and 1979 are examined by field of study and variations by sex are indicated. Doctoral enrollment is also examined in relation to the number of earned doctorates over the 10-year period, and projections by field are made for 1981 and 1985. It was found that full-time and part-time enrollment remained stable during the 1970s, in the neighborhood of 13,000. However, there was a substantial shift during the middle 1970s from the sciences (agriculture and biological sciences, engineering, health sciences, mathematics, and physical sciences) to the human sciences (education, fine and applied arts, humanities, and social sciences). In general, during the 1970s every third doctoral student in the human sciences was studying on a part-time basis, compared with one in six in the sciences. For all fields of study, doctoral degrees as a percentage of enrollment has remained relatively stable in the neighborhood of 13-14 percent. However, during the 10 year period 1970 to 1980, the percentage for male Ph.D. recipients was 14.8 percent, as compared with 8.4 percent for females. While the humanities and some social science disciplines may have a surplus of Ph.D.s, the sciences and some applied social sciences may experiences shortages in the supply of Ph.D.s. (SW)

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# DOCTORAL ENROLMENT AND GRADUATION PATTERNS AT CANADIAN UNIVERSITIES DURING THE SEVENTIES AND THEIR IMPLICATIONS FOR THE EIGHTIES: A STATISTICAL DOCUMENTATION BY DISCIPLINE

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## Introduction

The purpose of this three-part report is to trace doctoral enrolment and graduation patterns during the 1970's, and to derive from them trends for the 1980's.*

The first part focuses on full- and part-time doctoral enrolment by eight fields of study, and 26 disciplines for the 10-year period 1970-71 to 1979-80. Breakdowns by region and by selected universities are also provided. In addition, characteristics of doctoral students, such as legal status, citizenship, and sex are given.

The second part of the report outlines doctoral graduation patterns between 1970-71 and 1979 by field of study and selected disciplines, and shows variations by sex.

The third part relates doctoral enrolment to the number of earned doctorates over the ten-year period and, from present enrolment trends, simulates the anticipated number of degrees by field and discipline between 1981 and 1985.

The major reason for so comprehensive a statistical review is that this decade sees the beginning of a new era for the role of universities and the way they are funded. Changing labour market conditions, from both demographic and socio-economic points of view, make the supply of Ph.D.'s in the eighties an interesting case study.

* An abridged version of this report, was published in the March issue of University Affairs, entitled "...there is a shortage of highly trained scientists."

## Part I

### Enrolment Trends and Student Characteristics

Full- and part-time enrolment remained stable during the seventies, in the neighbourhood of 13,000 (Table 1). However, there was a substantial shift during the mid-seventies from the sciences (agriculture and biological sciences, engineering, health sciences and mathematics and physical sciences) to the human sciences (education, fine and applied arts, humanities, and social sciences). Whereas in 1970-71, every second doctoral student was enrolled in the science disciplines, this has declined to almost every third student. In recent years, however, this relationship has remained relatively stable: 62% in the human sciences and 38% in the sciences. This trend can be illustrated by two fields of study: doctoral enrolment in engineering, which accounted for 11.6% of total enrolment in 1970-71, has gradually declined to 8.3% in 1979-80; in contrast, doctoral enrolment in education increased from 7.0% to 11.9% over the same period.

These shifts in students' preference were even more pronounced for individual disciplines, particularly some of the social sciences which experienced growth in numbers, although recently the pattern has stabilized (Table A-1). For example, full- and part-time doctoral enrolment in political science and sociology increased from 198 and 308 in 1970-71 to 319 and 447 respectively in 1979-80. During the 10 year period, total doctoral enrolment in management and administrative studies grew from 64 to 200, whereas it declined slightly in law, from 66 to 53.

Table 1

Full-and Part-time Doctoral Enrolment by Field of Study, 1970-71 to 1979-80 *

| Field of Study | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 | 1975-76 | 1976-77 | 1977-78 | 1978-79 | 1979-80 |
|---|---|---|---|---|---|---|---|---|---|---|
| Education | 874 | 987 | 1,082 | 1,183 | 1,271 | 1,346 | 1,437 | 1,349 | 1,458 | 1,548 |
| | (7.0) | (7.6) | (8.2) | (9.0) | (9.9) | (10.2) | (10.9) | (10.3) | (11.4) | (11.9) |
| Fine and Applied Arts | 72 | 69 | 82 | 91 | 94 | 98 | 93 | 106 | 108 | 112 |
| | (0.6) | (0.5) | (0.6) | (0.7) | (0.7) | (0.8) | (0.7) | (0.8) | (0.8) | (0.9) |
| Humanities | 2,744 | 2,955 | 3,145 | 3,047 | 2,981 | 2,913 | 2,837 | 2,763 | 2,598 | 2,704 |
| | (21.8 | (22.8) | (23.7) | (23.3) | (23.3) | (22.2) | (21.5) | (21.1) | (20.2) | (20.8) |
| Social Sciences | 2,643 | 2,932 | 3,263 | 3,448 | 3,518 | 3,742 | 3,851 | 3,945 | 3,846 | 3,676 |
| | (21.0) | (22.6) | (24.6) | (26.4) | (27.4) | (28.5) | (29.1) | (30.1) | (29.9) | (28.3) |
| Sub-total Human Sciences | 6,333 | 6,943 | 7,572 | 7,769 | 7,864 | 8,099 | 8,218 | 8,163 | 8,010 | 8,040 |
| | (50.4) | (53.6) | (57.0) | (59.4) | (61.4) | (61.6) | (62.2) | (62.3) | (62.3) | (62.0) |
| Agriculture & Biological Sciences | 1,238 | 1,234 | 1,113 | 1,132 | 1,022 | 1,113 | 1,127 | 1,116 | 1,090 | 1,126 |
| | (9.9) | (9.5) | (8.4) | (8.7) | (8.0) | (8.5) | (8.5) | (8.5) | (8.5) | (8.7) |
| Engineering | 1,462 | 1,423 | 1,440 | 1,335 | 1,278 | 1,252 | 1,257 | 1,243 | 1,164 | 1,076 |
| | (11.6) | (11.0) | (10.8) | (10.2) | (10.0) | (9.5) | (9.5) | (9.5) | (9.1) | (8.3) |
| Health Sciences | 791 | 686 | 646 | 586 | 558 | 589 | 578 | 614 | 702 | 760 |
| | (6.3) | (5.3) | (4.9) | (4.5) | (4.4) | (4.5) | (4.4) | (4.7) | (5.5) | (5.9) |
| Mathematics and Physical Sciences | 2,743 | 2,661 | 2,501 | 2,251 | 2,092 | 2,092 | 2,035 | 1,969 | 1,884 | 1,970 |
| | (21.8) | (20.6) | (18.8) | (17.2) | (16.3) | (15.9) | (15.4) | (15.0) | (14.7) | (15.2 |
| Sub-total Sciences | 6,234 | 6,004 | 5,700 | 5,304 | 4,950 | 5,046 | 4,997 | 4,942 | 4,840 | 4,932 |
| | (49.6) | (46.4) | (43.0) | (40.6) | (38.6) | (38.4) | (37.8) | (37.7) | (37.7) | (38.0 |
| Total | 12,567 | 12,947 | 13,272 | 13,073 | 12,814 | 13,145 | 13,215 | 13,105 | 12,850 | 12,972 |
| | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) |
| Not Specified | 56 | 53 | 152 | 61 | 302 | 37 | 45 | 66 | 63 | 56 |
| Grand Total | 12,623 | 13,000 | 13,424 | 13,134 | 13,116 | 13,182 | 13,260 | 13,171 | 12,913 | 13,028 |

* All tables in this report have been derived from Statistics Canada data.

Enrolment in the humanities increased during the early seventies, but declined in recent years. For example, doctoral enrolment in English increased from 680 to a high of 835 in 1974–75, but dropped to 633 by 1979–80.

The full– and part–time doctoral enrolment pattern has also been expressed as an index using 1970–71 as a base. By 1979–80 all sciences had experienced a decline: engineering to 74, and agriculture and biological sciences to 91. In contrast, the human sciences have increased overall to 127. Education and the social sciences increased to 177 and 139 respectively by 1979–80.

Individual disciplines within each field of study often had different patterns. For instance, while overall enrolment fell in the sciences and increased in the human sciences, the index for geology increased to 108, and for classics and religious studies declined to 79 and 87 respectively.

So far, the discussion has centred on full– and part–time doctoral students combined, with a total of around 13,000 during the 10 year period. However, the number of full–time students declined from a high of 10,141 in 1970–71 to a low of 9,342 in 1973–74, and since then has remained reasonably constant (Table 2). In comparison, part–time enrolment increased between 1970–71 and 1973–74 from 2,482 to 3,830, and since then has fluctuated only marginally. For all fields of study, 19.7% were part–time students in 1970–71. This increased to 29.1% in 1973–74, but since then has declined to 25.3% in 1979–80.

In general, during the seventies every third doctoral student in the human sciences was studying on a part–time basis, compared with one in six in the sciences.

# Table 2

## Full- and Part-time Doctoral Enrolment by Field of Study, 1970-71 to 1979-80

| | | Education | | Fine Arts and Humanities | | Social Sciences | | Sub-total Human Sciences | | Agriculture & Biological Sc. | | Engineering | | Health Sciences | | Mathematical & Physical Sciences | | Natural Sciences | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| 1970-71 | Full-time | 580 | 66.4 | 1,916 | 70.0 | 2,005 | 73.6 | 4,501 | 71.1 | 1,089 | 88.0 | 1,250 | 85.5 | 728 | 92.0 | 2,522 | 91.9 | 5,589 | 89.6 | 10.141 | 80.3 |
| | Part-time | 294 | 33.6 | 820 | 30.0 | 718 | 26.4 | 1,832 | 28.9 | 149 | 12.0 | 212 | 14.5 | 63 | 8.0 | 221 | 8.1 | 645 | 10.4 | 2,482 | 19.7 |
| | Total | 874 | 100.0 | 2,736 | 100.0 | 2,723 | 100.0 | 6,333 | 100.0 | 1,238 | 100.0 | 1,462 | 100.0 | 791 | 100.0 | 2,743 | 100.0 | 6,234 | 100.0 | 12,623 | 100.0 |
| | | (6.9) | | (21.7) | | (21.6) | | (50.2) | | (9.8) | | (11.6) | | (6.3) | | (21.7) | | (49.4) | | (100.0) | |
| 1971-72 | Full-time | 618 | 62.6 | 1,987 | 67.6 | 2,103 | 69.8 | 4,708 | 67.8 | 1,084 | 87.8 | 1,202 | 82.2 | 589 | 85.9 | 2,371 | 89.1 | 5,246 | 86.8 | 9,967 | 76.7 |
| | Part-time | 369 | 37.4 | 954 | 32.4 | 911 | 30.2 | 2,234 | 32.2 | 150 | 12.2 | 261 | 17.8 | 97 | 14.1 | 290 | 10.9 | 798 | 13.2 | 3,033 | 23.3 |
| | Total | 987 | 100.0 | 2,941 | 100.0 | 3,014 | 100.0 | 6,942 | 100.0 | 1,234 | 100.0 | 1,463 | 100.0 | 686 | 100.0 | 2,661 | 100.0 | 6,044 | 100.0 | 13,000 | 100.0 |
| | | (7.6) | | (22.6) | | (23.2) | | (53.4) | | (9.5) | | (11.2) | | (5.3) | | (20.5) | | (46.5) | | (100.0) | |
| 1972-73 | Full-time | 654 | 60.4 | 2,108 | 65.3 | 2,205 | 67.6 | 4,967 | 65.6 | 945 | 84.9 | 1,178 | 81.8 | 527 | 81.6 | 2,157 | 86.2 | 4,807 | 84.3 | 9,904 | 73.8 |
| | Part-time | 428 | 39.6 | 1,119 | 34.7 | 1,058 | 32.4 | 2,605 | 34.4 | 168 | 15.1 | 262 | 18.2 | 119 | 18.4 | 344 | 13.8 | 893 | 15.7 | 3,520 | 26.2 |
| | Total | 1,082 | 100.0 | 3,227 | 100.0 | 3,263 | 100.0 | 7,572 | 100.0 | 1,113 | 100.0 | 1,440 | 100.0 | 646 | 100.0 | 2,501 | 100.0 | 5,700 | 100.0 | 13,424 | 100.0 |
| | | (8.1) | | (24.0) | | ((24.3) | | (56.4) | | (8.3) | | (10.7) | | (4.8) | | (18.6) | | (42.5) | | (100.0) | |
| 1973-74 | Full-time | 659 | 55.7 | 1,990 | 62.7 | 2,286 | 66.3 | 4,935 | 63.2 | 933 | 82.4 | 1,047 | 78.4 | 470 | 80.2 | 1,910 | 84.8 | 4,360 | 82.2 | 9,342 | 70.9 |
| | Part-time | 524 | 44.3 | 1,186 | 37.3 | 1,162 | 33.7 | 2,872 | 36.8 | 199 | 17.6 | 288 | 21.6 | 116 | 19.8 | 341 | 15.2 | 944 | 17.8 | 3,830 | 29.1 |
| | Total | 1,183 | 100.0 | 3,176 | 100.0 | 3,448 | 100.0 | 7,807 | 100.0 | 1,132 | 100.0 | 1,335 | 100.0 | 586 | 100.0 | 2,251 | 100.0 | 5,304 | 100.0 | 13,172 | 100.0 |
| | | (9.0) | | (24.1) | | (26.2) | | (59.3) | | (8.6) | | (10.1) | | (4.5) | | (17.1) | | (40.3) | | (100.0) | |
| 1974-75 | Full-time | 679 | 53.4 | 2,044 | 66.5 | 2,357 | 67.0 | 5,080 | 64.6 | 863 | 84.4 | 986 | 77.2 | 435 | 78.0 | 1,745 | 83.4 | 4,029 | 81.4 | 9,371 | 71.4 |
| | Part-time | 592 | 46.6 | 1,031 | 33.5 | 1,161 | 33.0 | 2,784 | 35.4 | 159 | 15.6 | 292 | 22.8 | 123 | 22.0 | 347 | 16.6 | 921 | 18.6 | 3,745 | 28.6 |
| | Total | 1,271 | 100.0 | 3,075 | 100.0 | 3,518 | 100.0 | 7,864 | 100.0 | 1,022 | 100.0 | 1,278 | 100.0 | 558 | 100.0 | 2,092 | 100.0 | 4,950 | 100.0 | 13,116 | 100.0 |
| | | (9.7) | | (23.4) | | (26.8) | | (60.0) | | (7.8) | | (9.7) | | (4.3) | | (16.0) | | (37.7) | | (100.0) | |
| 1975-76 | Full-time | 722 | 53.6 | 2,000 | 66.4 | 2,498 | 66.8 | 5,220 | 64.4 | 924 | 83.0 | 971 | 77.6 | 478 | 81.2 | 1,738 | 83.1 | 4,111 | 81.5 | 9,349 | 70.9 |
| | Part-time | 624 | 46.4 | 1,011 | 33.6 | 1,244 | 33.2 | 2,879 | 35.6 | 189 | 17.0 | 291 | 22.4 | 111 | 18.8 | 354 | 16.9 | 935 | 18.5 | 3,833 | 29.1 |
| | Total | 1,346 | 100.0 | 3,011 | 100.0 | 3,742 | 100.0 | 8,099 | 100.0 | 1,113 | 100.0 | 1,252 | 100.0 | 589 | 100.0 | 2,092 | 100.0 | 5,046 | 100.0 | 13,182 | 100.0 |
| | | (10.2) | | (22.8) | | (28.4) | | (61.4) | | (8.4) | | (9.5) | | (4.5) | | (15.9) | | (38.3) | | (100.0) | |
| 1976-77 | Full-time | 748 | 52.1 | 2,054 | 70.1 | 2,700 | 70.1 | 5,502 | 67.0 | 981 | 87.0 | 978 | 77.8 | 474 | 82.0 | 1,743 | 85.6 | 4,176 | 83.6 | 9,713 | 73.2 |
| | Part-time | 689 | 47.9 | 876 | 29.9 | 1,151 | 29.9 | 2,716 | 33.0 | 146 | 13.0 | 279 | 22.2 | 104 | 18.0 | 292 | 14.4 | 821 | 16.4 | 3,547 | 26.8 |
| | Total | 1,437 | 100.0 | 2,930 | 100.0 | 3,851 | 100.0 | 8,218 | 100.0 | 1,127 | 100.0 | 1,257 | 100.0 | 578 | 100.0 | 2,035 | 100.0 | 4,997 | 100.0 | 13,260 | 100.0 |
| | | (10.8) | | (22.1) | | (29.0) | | (62.0) | | ((8.5) | | (9.5) | | (4.3) | | (15.4) | | (37.7) | | (100.0) | |
| 1977-78 | Full-time | 759 | 56.3 | 2,022 | 70.5 | 2,750 | 69.7 | 5,531 | 67.8 | 974 | 87.3 | 950 | 76.4 | 506 | 82.4 | 1,670 | 84.8 | 4,100 | 83.0 | 9,681 | 73.5 |
| | Part-time | 590 | 43.7 | 847 | 29.5 | 1,195 | 30.3 | 2,632 | 32.2 | 142 | 12.7 | 293 | 23.6 | 108 | 17.6 | 299 | 15.2 | 842 | 17.0 | 3,490 | 26.5 |
| | Total | 1,349 | 100.0 | 2,869 | 100.0 | 3,945 | 100.0 | 8,163 | 100.0 | 1,116 | 100.0 | 1,243 | 100.0 | 614 | 100.0 | 1,969 | 100.0 | 4,942 | 100.0 | 13,171 | 100.0 |
| | | (10.2) | | (21.8) | | (30.0) | | (62.0) | | (8.5) | | (9.4) | | (4.7) | | (15.0) | | (37.5) | | (100.0) | |
| 1978-79 | Full-time | 814 | 57.2 | 1,905 | 70.4 | 2,746 | 71.4 | 5,485 | 68.5 | 952 | 87.3 | 885 | 76.0 | 591 | 84.2 | 1,586 | 84.2 | 4,014 | 82.9 | 9,543 | 73.9 |
| | Part-time | 644 | 42.8 | 801 | 29.6 | 1,100 | 28.6 | 2,525 | 31.5 | 138 | 12.7 | 279 | 24.0 | 111 | 15.8 | 298 | 15.8 | 826 | 17.1 | 3,370 | 26.1 |
| | Total | 1,458 | 100.0 | 2,706 | 100.0 | 3,846 | 100.0 | 8,010 | 100.0 | 1,090 | 100.0 | 1,164 | 100.0 | 702 | 100.0 | 1,884 | 100.0 | 4,840 | 100.0 | 12,913 | 100.0 |
| | | (11.3) | | (21.0) | | (29.8) | | (62.0) | | (8.4) | | (9.0) | | (5.4) | | (14.6) | | (37.5) | | (100.0) | |
| 1979-80 | Full-time | 892 | 57.6 | 2,015 | 71.6 | 2,628 | 71.5 | 5,535 | 68.8 | 1,021 | 90.7 | 820 | 76.2 | 640 | 84.2 | 1,665 | 84.5 | 4,146 | 84.1 | 9,727 | 74.7 |
| | Part-time | 656 | 42.4 | 801 | 28.4 | 1,048 | 28.5 | 2,505 | 31.2 | 105 | 9.3 | 256 | 23.8 | 120 | 15.8 | 305 | 15.5 | 786 | 15.9 | 3,301 | 25.3 |
| | Total | 1,548 | 100.0 | 2,816 | 100.0 | 3,676 | 100.0 | 8,040 | 100.0 | 1,126 | 100.0 | 1,076 | 100.0 | 760 | 100.0 | 1,970 | 100.0 | 4,932 | 100.0 | 13,028 | 100.0 |
| | | (11.9) | | (21.6) | | (28.2) | | (61.7) | | (8.6) | | (8.3) | | (5.8) | | (15.1) | | (37.9) | | (100.0) | |

The relationship between full- and part-time study also varied by discipline (Tables A-2 and A-3). In education, almost every second student was part-time, whereas in chemistry the proportion was one in ten. The distribution of full- and part-time doctoral students was different for every discipline and has shifted somewhat over time.

Another important change is the increase in the number of full-time female doctoral students, which grew from 1,653 in 1970-71 to 2,846 in 1979-80 (Table 3). Conversely, male full-time enrolment declined from 8,488 to 6,881 over the ten years. Expressed in percentage terms, female enrolment accounted for less than 20% during the early seventies and is now approaching 30%. In education, and fine and applied arts, every second full-time student is now female, whereas in engineering the proportion is one in twenty, and in mathematics and the physical sciences, one in ten. In the health sciences and the social sciences, every third student now is female, in comparison with one in five in 1970-71.

For 11 disciplines, the male/female enrolment pattern has been identified in Table A-4, which shows a substantial variation among the disciplines within each field, particularly in the humanities and social sciences. In 1970-71, 59.6% of full-time doctoral students in English were male, and this percentage declined to 50.7% in 1979-80. In psychology and sociology respectively, 69.9% and 72.0% were male, and this decreased to 53.1% and 58.2%. The overall trend is an increase in female enrolment and either a levelling off or decline in male.

# Table 3

## Full-time Doctoral Enrolment by Field of Study and by Sex, 1970-71 to 1979-80

| Field of Study | | 1970-71 | | 1971-72 | | 1972-73 | | 1973-74 | | 1974-75 | | 1975-76 | | 1976-77 | | 1977-78 | | 1978-79 | | 1979-80 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Education | Male | 444 | 76.6 | 465 | 75.2 | 466 | 71.2 | 453 | 68.7 | 449 | 66.1 | 451 | 62.5 | 467 | 62.4 | 430 | 56.6 | 462 | 55.4 | 462 | 51.8 |
| | Female | 136 | 23.4 | 153 | 24.8 | 188 | 28.8 | 206 | 31.3 | 230 | 33.9 | 271 | 37.5 | 281 | 37.6 | 329 | 43.4 | 372 | 44.6 | 430 | 48.2 |
| | Total | 580 | 100.0 | 618 | 100.0 | 654 | 100.0 | 659 | 100.0 | 679 | 100.0 | 722 | 100.0 | 748 | 100.0 | 759 | 100.0 | 834 | 100.0 | 892 | 100.0 |
| Fine and Applied Arts | Male | 31 | 68.9 | 28 | 58.3 | 28 | 51.8 | 28 | 49.1 | 30 | 50.8 | 38 | 59.4 | 41 | 63.1 | 44 | 55.7 | 44 | 55.0 | 40 | 52.0 |
| | Female | 14 | 31.1 | 20 | 41.7 | 26 | 48.2 | 29 | 50.9 | 29 | 49.2 | 26 | 40.6 | 24 | 36.9 | 35 | 44.3 | 36 | 45.0 | 37 | 48.0 |
| | Total | 45 | 100.0 | 48 | 100.0 | 54 | 100.0 | 57 | 100.0 | 59 | 100.0 | 64 | 100.0 | 65 | 100.0 | 79 | 100.0 | 80 | 100.0 | 77 | 100.0 |
| Humanities | Male | 1,284 | 68.6 | 1,321 | 68.1 | 1,362 | 66.3 | 1,244 | 64.4 | 1,230 | 62.0 | 1,211 | 62.6 | 1,238 | 62.2 | 1,203 | 61.9 | 1,110 | 60.8 | 1,161 | 59.9 |
| | Female | 587 | 31.4 | 618 | 31.9 | 692 | 33.7 | 678 | 35.1 | 730 | 36.8 | 704 | 36.4 | 751 | 37.8 | 740 | 38.1 | 715 | 39.2 | 777 | 40.1 |
| | Total | 1,871 | 100.0 | 1,939 | 100.0 | 2,054 | 100.0 | 1,933 | 100.0 | 1,985 | 100.0 | 1,936 | 100.0 | 1,989 | 100.0 | 1,943 | 100.0 | 1,825 | 100.0 | 1,938 | 100.0 |
| Social Sciences | Male | 1,553 | 77.5 | 1,599 | 76.0 | 1,686 | 76.5 | 1,737 | 76.0 | 1,740 | 73.8 | 1,785 | 71.5 | 1,901 | 70.4 | 1,902 | 69.2 | 1,866 | 68.0 | 1,745 | 66.4 |
| | Female | 452 | 22.5 | 504 | 24.0 | 519 | 23.5 | 544 | 23.8 | 607 | 25.8 | 691 | 27.7 | 799 | 29.6 | 848 | 30.8 | 880 | 32.0 | 883 | 33.6 |
| | Total | 2,005 | 100.0 | 2,103 | 100.0 | 2,205 | 100.0 | 2,286 | 100.0 | 2,357 | 100.0 | 2,498 | 100.0 | 2,700 | 100.0 | 2,750 | 100.0 | 2,746 | 100.0 | 2,628 | 100.0 |
| Sub-total Human Sciences | Male | 3,312 | 73.6 | 3,413 | 72.5 | 3,542 | 71.3 | 3,462 | 70.2 | 3,449 | 67.9 | 3,485 | 66.8 | 3,647 | 66.3 | 3,579 | 64.7 | 3,482 | 63.5 | 3,408 | 61.6 |
| | Female | 1,189 | 26.4 | 1,295 | 27.5 | 1,425 | 28.7 | 1,457 | 29.5 | 1,596 | 31.4 | 1,692 | 32.4 | 1,855 | 33.7 | 1,952 | 35.3 | 2,003 | 36.5 | 2,127 | 38.4 |
| | Total | 4,501 | 100.0 | 4,708 | 100.0 | 4,967 | 100.0 | 4,935 | 100.0 | 5,080 | 100.0 | 5,220 | 100.0 | 5,502 | 100.0 | 5,531 | 100.0 | 5,485 | 100.0 | 5,535 | 100.0 |
| Agriculture & & Biological Sciences | Male | 941 | 86.4 | 932 | 86.0 | 803 | 85.0 | 764 | 81.9 | 702 | 81.3 | 747 | 80.8 | 786 | 80.1 | 753 | 77.3 | 743 | 78.0 | 767 | 75.1 |
| | Female | 148 | 13.6 | 152 | 14.0 | 142 | 15.0 | 169 | 18.1 | 161 | 18.7 | 177 | 19.2 | 195 | 19.9 | 219 | 22.5 | 209 | 22.0 | 254 | 24.9 |
| | Total | 1,089 | 100.0 | 1,084 | 100.0 | 945 | 100.0 | 933 | 100.0 | 863 | 100.0 | 924 | 100.0 | 981 | 100.0 | 974 | 100.0 | 952 | 100.0 | 1,021 | 100.0 |
| Engineering | Male | 1,231 | 98.5 | 1,187 | 98.8 | 1,145 | 97.2 | 994 | 94.9 | 922 | 93.5 | 901 | 92.8 | 938 | 95.9 | 906 | 95.4 | 844 | 95.4 | 775 | 95.4 |
| | Female | 19 | 1.5 | 15 | 1.2 | 33 | 2.8 | 31 | 3.1 | 36 | 3.6 | 41 | 4.2 | 40 | 4.1 | 44 | 4.6 | 41 | 4.6 | 45 | 5.5 |
| | Total | 1,250 | 100.0 | 1,202 | 100.0 | 1,178 | 100.0 | 1,047 | 100.0 | 986 | 100.0 | 971 | 100.0 | 978 | 100.0 | 950 | 100.0 | 885 | 100.0 | 820 | 100.0 |
| Health Sciences | Male | 585 | 80.4 | 485 | 82.3 | 425 | 80.6 | 367 | 78.1 | 333 | 76.6 | 347 | 72.6 | 335 | 70.7 | 353 | 69.8 | 406 | 68.7 | 429 | 67.0 |
| | Female | 143 | 19.6 | 104 | 17.7 | 102 | 19.4 | 103 | 21.9 | 102 | 23.4 | 131 | 27.4 | 139 | 29.3 | 153 | 30.2 | 185 | 31.3 | 211 | 33.0 |
| | Total | 728 | 100.0 | 589 | 100.0 | 527 | 100.0 | 470 | 100.0 | 435 | 100.0 | 478 | 100.0 | 474 | 100.0 | 506 | 100.0 | 591 | 100.0 | 640 | 100.0 |
| Math. & Physical Sciences | Male | 2,381 | 94.4 | 2,221 | 93.7 | 1,991 | 92.3 | 1,735 | 90.8 | 1,560 | 89.4 | 1,549 | 89.1 | 1,559 | 89.4 | 1,499 | 89.8 | 1,408 | 88.8 | 1,466 | 88.0 |
| | Female | 141 | 5.6 | 150 | 6.3 | 156 | 7.4 | 163 | 8.5 | 165 | 9.5 | 173 | 10.0 | 176 | 10.1 | 164 | 9.8 | 178 | 11.2 | 199 | 12.0 |
| | Total | 2,522 | 100.0 | 2,371 | 100.0 | 2,157 | 100.0 | 1,910 | 100.0 | 1,745 | 100.0 | 1,738 | 100.0 | 1,743 | 100.0 | 1,670 | 100.0 | 1,586 | 100.0 | 1,665 | 100.0 |
| Sub-total Sciences | Male | 5,138 | 91.9 | 4,825 | 92.0 | 4,363 | 90.8 | 3,860 | 88.5 | 3,517 | 87.3 | 3,544 | 86.2 | 3,618 | 86.6 | 3,511 | 85.6 | 3,401 | 84.7 | 3,437 | 82.9 |
| | Female | 451 | 8.1 | 421 | 8.0 | 433 | 9.2 | 466 | 10.7 | 464 | 11.5 | 522 | 12.7 | 550 | 13.2 | 580 | 14.2 | 613 | 15.2 | 709 | 17.1 |
| | Total | 5,589 | 100.0 | 5,246 | 100.0 | 4,807 | 100.0 | 4,360 | 100.0 | 4,029 | 100.0 | 4,111 | 100.0 | 4,176 | 100.0 | 4,100 | 100.0 | 4,014 | 100.0 | 4,146 | 100.0 |
| Total | Male | 8,450 | 83.8 | 8,238 | 82.8 | 7,905 | 79.3 | 7,322 | 78.8 | 6,966 | 76.5 | 7,029 | 75.3 | 7,265 | 75.1 | 7,090 | 73.6 | 6,883 | 72.5 | 6,845 | 70.7 |
| | Female | 1,640 | 16.2 | 1,716 | 17.2 | 1,858 | 18.6 | 1,923 | 20.2 | 2,060 | 22.6 | 2,214 | 23.7 | 2,405 | 24.9 | 2,532 | 26.3 | 2,616 | 27.5 | 2,836 | 29.3 |
| | Total | 10,090 | 100.0 | 9,954 | 100.0 | 9,974 | 100.0 | 9,295 | 100.0 | 9,109 | 100.0 | 9,331 | 100.0 | 9,678 | 100.0 | 9,631 | 100.0 | 9,499 | 100.0 | 9,681 | 100.0 |
| Unspecified | Male | 38 | 74.5 | 12 | 92.3 | 117 | 90.0 | 42 | 89.4 | 205 | 78.2 | 16 | 88.9 | 29 | 82.9 | 41 | 82.0 | 34 | 77.3 | 36 | 78.3 |
| | Female | 13 | 25.5 | 1 | 7.7 | 13 | 10.0 | 5 | 10.6 | 57 | 21.8 | 2 | 11.1 | 6 | 17.1 | 9 | 18.0 | 10 | 22.7 | 10 | 21.7 |
| | Total | 51 | 100.0 | 13 | 100.0 | 130 | 100.0 | 47 | 100.0 | 262 | 100.0 | 18 | 100.0 | 35 | 100.0 | 50 | 100.0 | 44 | 100.0 | 46 | 100.0 |
| Grand Total | Male | 8,488 | 83.7 | 8,250 | 82.8 | 8,021 | 81.0 | 7,364 | 78.8 | 7,171 | 76.5 | 7,045 | 74.5 | 7,294 | 75.1 | 7,131 | 73.7 | 6,917 | 72.5 | 6,881 | 70.7 |
| | Female | 1,653 | 16.3 | 1,717 | 17.2 | 1,870 | 18.9 | 1,928 | 20.6 | 2,119 | 22.5 | 2,216 | 23.7 | 2,411 | 24.9 | 2,541 | 26.3 | 2,626 | 27.5 | 2,846 | 29.3 |
| | Total | 10,141 | 100.0 | 9,967 | 100.0 | 9,904 | 100.0 | 9,342 | 100.0 | 9,371 | 100.0 | 9,349 | 100.0 | 9,713 | 100.0 | 9,681 | 100.0 | 9,543 | 100.0 | 9,727 | 100.0 |

Note: When male and female do not equal total, the difference is due to non-reporting of sex.

Table 4 shows full- and part-time doctoral enrolment separately by region. Over the ten years, at the Quebec universities, better than every third student was classified as part-time, whereas in the Western provinces, this ratio was one in five.

The same information has been expressed as an index (1970-71 = 100) in Table A-5, showing Quebec's increase to 123 and the decline of the Western provinces to 88. Table A-5 also gives the regional distribution in percentages. The Atlantic provinces accounted for 3% of doctoral enrolment, with little change over the ten year period. Quebec's share increased from 21.6% in 1970-71 to 25.7% in 1979-80. Conversely, the Western provinces accounted for 25.4% in 1970-71, but declined to 21.7% by the end of the decade. Ontario accounted for about 50% of full- and part-time doctoral enrolment, with a high of 52.1% in 1974-75 and a low of 49.1% in 1979-80.

Another feature of the full- and part-time doctoral enrolment is the predominance of five universities (Alberta, British Columbia, McGill, Montreal, Toronto), which accounted for over 50% of the students (Table 5) during the seventies. Only at the two Western universities (Alberta and British Columbia) was there a relative decline, from 16.9% in 1970-71 to 13.4% ten years later. It is also interesting to note that every fifth doctoral student was enrolled at the University of Toronto during this period.

One new development is the change in legal status of full-time doctoral students during the seventies (Table 6). In 1972-73, 13.1% were in the foreign students category; this increased to 24.8% in 1979-80. The percentage

Table 4

Full- and Part-time Doctoral Enrolment by Region, 1970-71 to 1979-80

| Academic Year | Atlantic Provinces | | | Quebec | | | Ontario | | | Western Provinces | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Full-time | Part-time | Total | Full-time | Part-time | Total | Full-time | Part-time | Total | Full-time | Part-time | Total | Full-time | Part-time | Total |
| 1970-71 | 375 (90.6) | 39 (9.4) | 414 (100.0) | 1,796 (65.8) | 932 (34.2) | 2,728 (100.0) | 5,192 (82.8) | 1,079 (17.2) | 6,271 (100.0) | 2,778 (86.5) | 432 (13.5) | 3,210 (100.0) | 10,141 (80.3) | 2,482 (19.7) | 12,623 (100.0) |
| 1971-72 | 336 (93.3) | 24 (6.7) | 360 (100.0) | 1,650 (60.5) | 1,076 (39.5) | 2,726 (100.0) | 5,222 (78.4) | 1,441 (21.6) | 6,663 (100.0) | 2,759 (84.9) | 492 (15.1) | 3,251 (100.0) | 9,967 (76.7) | 3,033 (23.3) | 13,000 (100.0 |
| 1972-73 | 354 (88.3) | 47 (11.7) | 401 (100.0) | 1,900 (61.6) | 1,183 (38.4) | 3,083 (100.0) | 4,991 (73.6) | 1,788 (26.4) | 6,779 (100.0) | 2,659 (84.1) | 502 (15.9) | 3,161 (100.0) | 9,904 (73.8) | 3,520 (26.2) | 13,424 (100.0) |
| 1973-74 | 336 (85.3) | 58 (14.7) | 394 (100.0) | 1,703 (54.3) | 1,433 (45.7) | 3,136 (100.0) | 4,906 (73.3) | 1,791 (26.7) | 6,697 (100.0) | 2,397 (81.4) | 548 (18.6) | 2,945 (100.0) | 9,342 (70.9) | 3,830 (29.1) | 13,172 (100.0) |
| 1974-75 | 338 (85.4) | 58 (14.6) | 396 (100.0) | 1,932 (63.8) | 1,094 (36.2) | 3,026 (100.0) | 4,873 (71.3) | 1,961 (28.7) | 6,834 (100.0) | 2,228 (77.9) | 632 (22.1) | 2,860 (100.0) | 9,371 (71.4) | 3,745 (28.6) | 13,116 (100.0) |
| 1975-76 | 337 (82.4) | 72 (17.6) | 409 (100.0) | 1,937 (61.5) | 1,212 (38.5) | 3,149 (100.0) | 4,920 (72.2) | 1,892 (27.8) | 6,812 (100.0) | 2,155 (76.6) | 657 (23.4) | 2,812 (100.0) | 9,349 (70.9) | 3,833 (29.1) | 13,182 (100.0) |
| 1976-77 | 343 (78.7) | 93 (21.3) | 436 (100.0) | 1,958 (63.3) | 1,136 (36.7) | 3,094 (100.0) | 5,092 (74.5) | 1,747 (25.5) | 6,839 (100.0) | 2,320 (80.2) | 571 (19.8) | 2,891 (100.0) | 9,713 (73.2) | 3,547 (26.8) | 13,260 (100.0) |
| 1977-78 | 347 (79.8) | 88 (20.2) | 435 (100.0) | 2,064 (65.0) | 1,114 (35.0) | 3,178 (100.0) | 5,033 (74.6) | 1,710 (25.4) | 6,743 (100.0) | 2,237 (79.5) | 578 (20.5) | 2,815 (100.0) | 9,681 (73.5) | 3,490 (26.5) | 13,171 (100.0) |
| 1978-79 | 339 (77.6) | 98 (22.4) | 437 (100.0) | 2,120 (66.1) | 1,088 (33.9) | 3,208 (100.0) | 4,904 (75.3) | 1,605 (24.7) | 6,509 (100.0) | 2,180 (79.0) | 579 (21.0) | 2,759 (100.0) | 9,543 (73.9) | 3,370 (26.1) | 12,913 (100.0) |
| 1979-80 | 364 (80.5) | 88 (19.5) | 452 (100.0) | 2,185 (65.2) | 1,167 (34.8) | 3,352 (100.0) | 4,855 (75.9) | 1,542 (24.1) | 6,397 (100.0) | 2,323 (82.2) | 504 (17.8) | 2,827 (100.0) | 9,727 (74.7) | 3,301 (25.3) | 13,028 (100.0) |
| 10 Year Total | 3,469 (83.9) | 665 (16.1) | 4,134 (100.0) | 19,245 (62.7) | 11,435 (37.3) | 30,680 (100.0) | 49,988 (75.1) | 16,556 (24.9) | 66,544 (100.0) | 24,036 (81.4) | 5,495 (18.6) | 29,531 (100.0) | 96,738 (73.9) | 34,151 (26.1) | 130,889 (100.0) |

Table 5

Full- and Part-Time Doctoral Enrolment
at Five Selected Universities,
1970-71 to 1979-80

| Academic Year | Alberta | British Columbia | McGill | Montreal | Toronto | Sub-total | Other Universities | Total |
|---|---|---|---|---|---|---|---|---|
| 1970-71 | 1,045 | 1,079 | 1,046 | 973 | 2,610 | 6,753 | 5,870 | 12,623 |
| | 8.3 | 8.6 | 8.3 | 7.7 | 20.7 | 53.5 | 46.5 | 100.0 |
| 1972-73 | 1,009 | 1,024 | 1,208 | 1,084 | 2,727 | 7,052 | 6,372 | 13,424 |
| | 7.5 | 7.6 | 9.0 | 8.1 | 20.3 | 52.5 | 47.5 | 100.0 |
| 1973-74 | 919 | 959 | 1,131 | 1,274 | 2,732 | 7,015 | 6,157 | 13,172 |
| | 7.0 | 7.3 | 8.6 | 9.7 | 20.7 | 53.3 | 46.7 | 100.0 |
| 1974-75 | 897 | 890 | 1,070 | 1,174 | 2,848 | 6,879 | 6,237 | 13,116 |
| | 6.8 | 6.8 | 8.2 | 9.0 | 21.7 | 52.5 | 47.5 | 100.0 |
| 1975-76 | 873 | 840 | 1,067 | 1,328 | 2,815 | 6,923 | 6,259 | 13,182 |
| | 6.6 | 6.4 | 8.1 | 10.1 | 21.4 | 52.5 | 47.5 | 100.0 |
| 1976-77 | 874 | 880 | 1,039 | 1,240 | 2,806 | 6,839 | 6,421 | 13,260 |
| | 6.6 | 6.6 | 7.8 | 9.4 | 21.2 | 51.6 | 48.4 | 100.0 |
| 1977-78 | 815 | 854 | 1,105 | 1,229 | 2,913 | 6,916 | 6,002 | 12,918 |
| | 6.3 | 6.6 | 8.6 | 9.5 | 22.6 | 53.5 | 46.5 | 100.0 |
| 1978-79 | 817 | 789 | 1,091 | 1,207 | 2,866 | 6,770 | 5,840 | 12,610 |
| | 6.5 | 6.3 | 8.6 | 9.6 | 22.7 | 53.7 | 46.3 | 100.0 |
| 1979-80 | 831 | 873 | 1,032 | 1,316 | 2,819 | 6,871 | 5,834 | 12,705 |
| | 6.5 | 6.9 | 8.1 | 10.4 | 22.2 | 54.1 | 45.9 | 100.0 |
| Total | 8,080 | 8,188 | 9,789 | 10,825 | 25,136 | 62,018 | 54,992 | 117,010 |
| | 6.9 | 7.0 | 8.4 | 9.2 | 21.5 | 53.0 | 47.0 | 100.0 |

Note: Data for 1971-72 is not available

of Canadian citizens also increased over this period, from 53.0% to 63.4%, whereas permanent residents (landed immigrants) declined from 33.9% to 11.7%. Full-time foreign doctoral enrolment rose from 21.3% in engineering, and 13.0% in mathematics and the physical sciences in 1972-73, to 38.9% and 34.9% respectively in 1979-80.

In the two year period 1977-78 to 1979-80, the proportion of Canadians increased from 56.3% to the above-mentioned 63.4%. This percentage varied by province; the Atlantic region had less than 50% of the full-time doctoral students in the Canadian citizens category, and the Western provinces were also below the national average (Table 7). In Ontario and Quebec, two out of three were Canadian citizens. Conversely, the proportion of foreign students was highest in the Atlantic region, followed by the Western provinces.

Full-time and part-time doctoral students differed in their legal status in 1979-80 (Table 8). Whereas 63.4% of full-time students were Canadian citizens, this proportion was 76.9% for part-time. Foreign students accounted for 24.8% of full-time doctoral enrolment, but only 9.9% of the part-time.

Appendix Tables A-6 to A-11 show the legal status has also been provided for full-time and part-time doctoral students separately by university and province for three years (1977-78 to 1979-80).[1]

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[1]These tables are self-explanatory, and are provided for reference purposes to allow individual universities to compare the legal status (Canadian Citizen, Permanent Resident, and Foreign Student) of their students to that of other universities, and to see the change over the three year period. Unfortunately, for a small number of universities, the legal status of doctoral students was not available. The Technical University of Nova Scotia (Nova Scotia Technical College), Université du Québec and Simon Fraser University accounted for 216 doctoral students in 1977-78, 261 in 1978-79, and 298 in 1979-80.

Table 6

Legal Status of Full-time Doctoral Enrolment by Field of Study in Percent, 1972-73 and 1979-80

| Field of Study | Canadian Citizens | | Permanent Residents | | Foreign Students | |
|---|---|---|---|---|---|---|
| | 1972-73 | 1979-80 | 1972-73 | 1979-80 | 1972-73 | 1979-80 |
| Education | 69.9 | 72.6 | 21.1 | 12.2 | 9.0 | 15.2 |
| Fine & Applied Arts | 75.9 | 68.8 | 22.2 | 19.5 | 1.9 | 11.7 |
| Humanities | 56.4 | 66.5 | 31.4 | 14.0 | 12.4 | 19.5 |
| Social Sciences | 59.9 | 63.6 | 28.5 | 11.7 | 11.6 | 24.8 |
| Sub-total Human Sciences | 60.1 | 66.2 | 28.5 | 12.7 | 11.4 | 21.1 |
| Agriculture & Biological Sciences | 53.0 | 65.9 | 33.9 | 9.0 | 14.1 | 25.1 |
| Engineering | 33.8 | 43.5 | 44.9 | 17.6 | 21.3 | 38.9 |
| Health Sciences | 61.3 | 77.7 | 30.2 | 9.2 | 8.5 | 13.1 |
| Mathematics & Physical Sciences | 45.4 | 56.9 | 41.6 | 8.2 | 13.0 | 34.9 |
| Sub-total Sciences | 45.7 | 59.7 | 39.5 | 10.4 | 14.8 | 29.9 |
| Total | 53.0 | 63.4 | 33.9 | 11.7 | 13.1 | 24.8 |

Table 7

Legal Status of Full-time Doctoral Enrolment by Province, 1977-78 and 1979-80

| Province | Canadian Citizen | | Permanent Resident | | Foreign Students | | Total | |
|---|---|---|---|---|---|---|---|---|
| | 1977-78 | 1979-80 | 1977-78 | 1979-80 | 1977-78 | 1979-80 | 1977-78 | 1979-80 |
| Newfoundland | 20 (39.2) | 26 (44.8) | 11 (21.6) | 6 (10.3) | 20 (39.2) | 26 (44.8) | 51 (100.0) | 58 (100.0) |
| Nova Scotia | 100 (49.5) | 108 (48.4) | 25 (12.4) | 21 (9.4) | 77 (38.1) | 94 (42.2) | 202 (100.0) | 223 (100.0) |
| New Brunswick | 43 (47.2) | 39 (50.6) | 13 (14.3) | 5 (6.5) | 35 (38.5) | 33 (42.9) | 91 (100.0) | 77 (100.0) |
| Quebec | 1,270 (62.8) | 1,424 (67.7) | 413 (20.4) | 297 (14.1) | 339 (16.8) | 384 (18.2) | 2,025 (100.0) | 2,105 (100.0) |
| Ontario | 2,840 (56.5) | 3,162 (65.1) | 983 (19.5) | 541 (11.2) | 1,207 (24.0) | 1,151 (23.7) | 5,032 (100.0) | 4,855 (100.0) |
| Manitoba | 175 (54.9) | 182 (58.7) | 68 (21.3) | 43 (13.9) | 76 (23.8) | 85 (27.4) | 319 (100.0) | 310 (100.0) |
| Saskatchewan | 69 (46.3) | 70 (52.2) | 34 (22.8) | 11 (9.2) | 46 (30.9) | 53 (39.6) | 149 (100.0) | 134 (100.0) |
| Alberta | 456 (51.9) | 512 (57.6) | 182 (20.7) | 115 (12.9) | 241 (27.4) | 262 (29.5) | 879 (100.0) | 889 (100.0) |
| British Columbia | 376 (49.7) | 480 (58.3) | 167 (22.1) | 91 (11.0) | 214 (28.3) | 253 (30.7) | 757 (100.0) | 824 (100.0) |
| Total | 5,349 (56.3) | 6,003 (63.4) | 1,896 (20.0) | 1,130 (11.9) | 2,255 (23.7) | 2,341 (24.7) | 9,505 (100.0) | 9,464 (100.0) |

Table 8

Legal Status of Full-and Part-time Doctoral Enrolment by Field of Study, 1979-80

| Field of Study | Canadian Citizens | | | Permanent Residents | | | Foreign Students | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total |
| Education | 640 | 531 | 1,171 | 108 | 53 | 161 | 134 | 31 | 165 | 882 | 615 | 1,497 |
| | (72.6) | (86.3) | (78.2) | (12.2) | (8.6) | (10.8) | (15.2) | (5.0) | (11.0) | (100.0) | (100.0) | (100.0) |
| Fine & Applied Arts | 53 | 29 | 82 | 15 | 4 | 19 | 9 | 2 | 11 | 77 | 35 | 112 |
| | (68.8) | (82.9) | (73.2) | (19.5) | (11.4) | (17.0) | (11.7) | (5.7) | (9.8) | (100.0) | (100.0) | (100.0) |
| Humanities | 1,264 | 544 | 1,808 | 265 | 114 | 379 | 371 | 83 | 454 | 1,900 | 741 | 2,641 |
| | (66.5) | (73.4) | (68.5) | (14.0) | (15.4) | (14.4) | (19.5) | (11.2) | (17.2) | (100.0) | (100.0) | (100.0) |
| Social Sciences | 1,598 | 755 | 2,353 | 293 | 129 | 422 | 622 | 113 | 735 | 2,513 | 997 | 3,510 |
| | (63.6) | (75.7) | (67.0) | (11.7) | (12.9) | (12.0) | (24.8) | (11.3) | (20.9) | (100.0) | (100.0) | (100.0) |
| Sub-total Human Sciences | 3,555 | 1,859 | 5,414 | 681 | 300 | 981 | 1,136 | 229 | 1,365 | 5,372 | 2,388 | 7,760 |
| | (66.2) | (77.8) | (69.8) | (12.7) | (12.6) | (12.6) | (21.1) | (9.6) | (17.6) | (100.0) | (100.0) | (100.0) |
| Agriculture & Biological Sc. | 662 | 73 | 735 | 90 | 17 | 107 | 252 | 13 | 265 | 1,004 | 103 | 1,107 |
| | (65.9) | (70.9) | (66.4) | (9.0) | (16.5) | (9.7) | (25.1) | (12.6) | (23.9) | (100.0) | (100.0) | (100.0) |
| Engineering | 354 | 174 | 528 | 143 | 49 | 192 | 316 | 28 | 344 | 813 | 251 | 1,064 |
| | (43.5) | (69.3) | (49.6) | (17.6) | (19.5) | (18.1) | (38.9) | (11.2) | (32.3) | (100.0) | (100.0) | (100.0) |
| Health Sciences | 497 | 98 | 595 | 59 | 13 | 72 | 84 | 8 | 92 | 640 | 119 | 759 |
| | (77.7) | (82.4) | (78.4) | (9.2) | (10.9) | (9.5) | (13.1) | (6.7) | (12.1) | (100.0) | (100.0) | (100.0) |
| Mathematics & Physical Sciences | 921 | 219 | 1,140 | 133 | 34 | 167 | 564 | 34 | 598 | 1,618 | 287 | 1,905 |
| | (56.9) | (76.3) | (59.8) | (8.2) | (11.8) | (8.8) | (34.9) | (11.9) | (31.4) | (100.0) | (100.0) | (100.0) |
| Sub-total Sciences | 2,434 | 564 | 2,998 | 425 | 113 | 538 | 1,216 | 83 | 1,299 | 4,075 | 760 | 4,835 |
| | (59.7) | (74.2) | (62.0) | (10.4) | (14.9) | (11.1) | (29.8) | (10.9) | (26.9) | (100.0) | (100.0) | (100.0) |
| Total | 6,003 | 2,427 | 8,430 | 1,111 | 414 | 1,525 | 2,353 | 313 | 2,666 | 9,477 | 3,154 | 12,621 |
| | (63.4) | (76.9) | (66.8) | (11.7) | (13.1) | (12.1) | (24.8) | (9.9) | (21.1) | (100.0) | (100.0) | (100.0) |

Table 9

Citizenship of Full-time Doctoral Students by Field of Study and by Country or Geographic Region, 1972-73 and 1979-80

| Field of Study | Canada | United States | United Kingdom | France & Other European | Caribbean | Central & South America | Africa | South Pacific | Asia | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Education | 74.4 (70.5) | 6.9 (10.8) | 1.8 (3.6) | 1.7 (2.1) | 1.9 (0.8) | 2.3 (0.2) | 4.0 (2.4) | 2.8 (3.9) | 4.1 (5.7) | 100.0 (100.0) |
| Humanities | 66.4 (57.2) | 14.7 (22.7) | 4.1 (6.8) | 5.3 (5.7) | 0.5 (1.0) | 1.0 (0.6) | 2.1 (1.4) | 0.9 (1.9) | 3.3 (2.7) | 100.0 (100.0) |
| Social Sciences | 63.0 (60.9) | 13.5 (15.9) | 2.7 (6.2) | 4.2 (4.9) | 0.5 (0.5) | 1.3 (0.3) | 3.5 (2.7) | 0.8 (1.9) | 7.6 (6.8) | 100.0 (100.0) |
| Agriculture & Biological Sc. | 66.0 (53.9) | 9.6 (12.0) | 3.6 (8.2) | 2.4 (4.2) | 0.5 (0.7) | 1.7 (0.6) | 5.2 (2.7) | 1.4 (2.6) | 9.0 (15.2) | 100.0 (100.0) |
| Engineering | 43.6 (34.7) | 0.7 (2.6) | 1.8 (4.2) | 5.9 (10.1) | 0.5 (0.3) | 4.1 (2.0) | 17.8 (11.8) | 1.6 (1.8) | 23.3 (32.5) | 100.0 (100.0) |
| Health Sciences | 77.6 (61.6) | 6.9 (4.8) | 3.6 (3.6) | 1.9 (7.4) | 0.3 (1.4) | 1.4 (1.5) | 1.7 (1.1) | 0.3 (1.7) | 6.1 (17.0) | 100.0 (100.0) |
| Mathematics & Physical Sc. | 57.1 (46.8) | 6.4 (8.0) | 4.9 (9.6) | 4.9 (7.0) | 0.4 (0.6) | 4.0 (1.5) | 3.8 (2.0) | 1.1 (2.8) | 16.8 (21.7) | 100.0 (100.0) |
| Total | 63.3 (53.8) | 9.9 (12.6) | 3.4 (6.9) | 4.1 (5.9) | 0.6 (0.7) | 2.1 (0.9) | 4.6 (3.5) | 1.2 (2.4) | 9.4 (13.3) | 100.0 (100.0) |

Note: The 1972-73 data are in brackets and are available only for about 80% of full-time doctoral students.

For 1979–80, the sex breakdown by legal status has also been provided for full–time and part–time doctoral students separately, by selected disciplines. Whereas every third full–time doctoral student with Canadian citizenship is female, this relationship is one out of five of the foreign student category, but with considerable variation among the disciplines (Table A–12). A similar pattern exists for part–time doctoral enrolees (Table A–13).

The citizenship by country or geographic region shows that in 1972–73, almost as many full–time doctoral engineering students were from Asian countries (32.5%) as from Canada (34.7%) (Table 9). However, by 1979–80, the distribution had shifted, with Asian countries accounting for 23.3%, and Canadians, for 43.6%. In 1979–80, 9.9% of all full–time doctoral students held U.S. citizenship, with highs of 14.7% in the humanities and 13.5% in the social sciences. (Appendix Table A–15 provides the absolute number for citizenship in 1979–80.)

## Part II

## Doctoral Degrees Awarded

Expansion of graduate education at the doctoral level is also reflected in the number of degrees awarded during the seventies. Canadian universities granted a total of 306 doctorates in 1960-61 (Table 10). This more than tripled to 1,108 in 1968-69, reaching a high of 1,929 in 1972-73, and has since remained rather stable around 1,800. In some years during the sixties, as many as three out of four doctoral degrees were in science disciplines, but this proportion declined gradually during the seventies so that in 1977, only one out of two were in the sciences.

The increase of Ph.D.'s was particularly marked in the social sciences, including education, which rose from 306 in 1970-71 to 590 in 1979 (from 18.8% to 32.7% of the total).

Expressed as an index, using 1970-71 as a base of 100, doctorates in human sciences grew to 181, whereas mathematics and the physical sciences declined to 60. Of the sciences, only health increased - to 132.

Trends by discipline are revealing (Table A-15). In 1970-71, 241 Ph.D.'s were awarded in chemistry and 136 in physics. By 1979, these numbers had declined to 110 and 88 respectively. In contrast, the number of doctorates in education grew from 77 to 193 during the same period. The pattern for some of the social sciences was similar: sociology from 9 to 49, economics from 24 to 60.

## Table 10

### Earned Doctoral Degrees by Field of Study, 1960-61 to 1979

| Field of Study | 1960-61 | | 1961-62 | | 1962-63 | | 1963-64 | | 1964-65 | | 1965-66 | | 1966-67 | | 1967-68 | | 1968-69 | | 1969-70 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Education | 7 | 2.3 | 17 | 5.3 | 12 | 2.8 | 13 | 2.7 | 22 | 3.9 | 25 | 3.6 | 39 | 5.0 | 73 | 7.3 | 60 | 5.4 | 78 | 5.7 |
| Fine & Applied Arts & Humanities | 57 | 18.6 | 42 | 13.1 | 57 | 13.5 | 52 | 10.8 | 74 | 13.1 | 87 | 12.5 | 94 | 12.1 | 96 | 9.5 | 119 | 10.7 | 157 | 11.4 |
| Social Sciences | 41 | 13.4 | 35 | 10.9 | 39 | 9.3 | 56 | 11.6 | 56 | 9.9 | 70 | 10.1 | 78 | 10.0 | 134 | 13.3 | 157 | 14.2 | 166 | 12.1 |
| Sub-total Human Sciences | 105 | 34.3 | 94 | 29.3 | 108 | 25.6 | 121 | 25.2 | 152 | 26.9 | 182 | 26.2 | 211 | 27.1 | 303 | 30.1 | 336 | 30.3 | 401 | 29.2 |
| Agriculture & Biological Sc. | 57 | 18.6 | 67 | 20.9 | 100 | 23.8 | 99 | 20.6 | 97 | 17.1 | 125 | 18.0 | 115 | 14.8 | 154 | 15.3 | 173 | 15.6 | 235 | 17.1 |
| Engineering | 19 | 6.2 | 20 | 6.2 | 26 | 6.2 | 46 | 9.6 | 45 | 8.0 | 83 | 11.9 | 105 | 13.5 | 103 | 10.2 | 168 | 15.2 | 188 | 13.7 |
| Health Sciences | 24 | 7.8 | 25 | 7.8 | 30 | 7.1 | 31 | 6.4 | 44 | 7.8 | 46 | 6.6 | 50 | 6.4 | 58 | 5.8 | 56 | 5.1 | 95 | 6.9 |
| Mathematics & Physical Sciences | 101 | 33.0 | 115 | 35.8 | 157 | 37.3 | 184 | 38.2 | 228 | 40.3 | 260 | 37.4 | 298 | 38.2 | 388 | 38.6 | 375 | 33.8 | 456 | 33.2 |
| Sub-total Sciences | 201 | 65.7 | 227 | 70.7 | 313 | 74.4 | 360 | 74.8 | 414 | 73.1 | 514 | 73.8 | 568 | 72.9 | 703 | 69.9 | 772 | 69.7 | 974 | 70.8 |
| Total | 306 | 100.0 | 321 | 100.0 | 421 | 100.0 | 481 | 100.0 | 566 | 100.0 | 696 | 100.0 | 779 | 100.0 | 1,006 | 100.0 | 1,108 | 100.0 | 1,375 | 100.0 |

Note: Percentage indicates distribution by field of study.

Table 10
(cont'd)

Earned Doctoral Degrees by Field of Study, 1960-61 to 1979

| Field of Study | 1970-71 | | 1971-72 | | 1972-73 | | 1974 | | 1975 | | 1976 | | 1977 | | 1978 | | 1979 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Education | 77 | 4.7 | 109 | 6.3 | 122 | 6.3 | 128 | 6.8 | 172 | 9.4 | 157 | 9.3 | 173 | 10.2 | 157 | 8.6 | 193 | 10.7 |
| Index | 100 | | 142 | | 158 | | 166 | | 223 | | 204 | | 225 | | 204 | | 251 | |
| Fine & Applied Arts | 6 | 0.4 | 6 | 0.4 | 5 | 0.3 | 4 | 0.2 | 7 | 0.4 | 5 | 0.3 | 11 | 0.6 | 7 | 0.4 | 11 | 0.6 |
| Index | 100 | | 100 | | 83 | | 67 | | 117 | | 83 | | 183 | | 117 | | 183 | |
| Humanities | 182 | 11.2 | 202 | 11.7 | 228 | 11.8 | 264 | 13.9 | 277 | 15.0 | 248 | 14.6 | 256 | 15.0 | 259 | 14.2 | 291 | 16.1 |
| Index | 100 | | 111 | | 125 | | 145 | | 152 | | 136 | | 140 | | 142 | | 160 | |
| Social Sciences | 229 | 14.1 | 231 | 13.4 | 290 | 15.0 | 325 | 17.1 | 372 | 20.2 | 410 | 24.2 | 357 | 21.0 | 423 | 23.3 | 397 | 22.0 |
| Index | 100 | | 101 | | 127 | | 142 | | 162 | | 179 | | 156 | | 185 | | 173 | |
| Sub-total Human Sc. | 494 | 30.4 | 548 | 31.8 | 645 | 33.4 | 721 | 38.0 | 828 | 45.0 | 820 | 48.4 | 797 | 46.8 | 846 | 46.5 | 892 | 49.5 |
| Index | 100 | | 111 | | 131 | | 146 | | 168 | | 166 | | 161 | | 171 | | 181 | |
| Agriculture | 276 | 17.0 | 240 | 13.9 | 250 | 13.0 | 247 | 13.0 | 241 | 13.1 | 199 | 11.8 | 228 | 13.4 | 239 | 13.1 | 224 | 12.4 |
| Index | 100 | | 87 | | 91 | | 89 | | 87 | | 72 | | 83 | | 87 | | 81 | |
| Engineering | 225 | 13.8 | 261 | 15.1 | 299 | 15.5 | 301 | 15.9 | 227 | 12.3 | 189 | 11.2 | 203 | 11.9 | 224 | 12.3 | 231 | 12.8 |
| Index | 100 | | 116 | | 133 | | 134 | | 101 | | 84 | | 90 | | 99 | | 103 | |
| Health Sciences | 102 | 6.3 | 151 | 8.8 | 178 | 9.2 | 153 | 8.1 | 122 | 6.6 | 105 | 6.2 | 103 | 6.2 | 125 | 6.9 | 134 | 7.4 |
| Index | 100 | | 148 | | 174 | | 150 | | 120 | | 103 | | 103 | | 123 | | 132 | |
| Math. & Physical Sc. | 528 | 32.5 | 524 | 30.4 | 557 | 28.9 | 474 | 25.0 | 422 | 22.9 | 380 | 22.4 | 369 | 21.7 | 385 | 21.2 | 322 | 17.9 |
| Index | 100 | | 99 | | 105 | | 90 | | 80 | | 72 | | 70 | | 73 | | 60 | |
| Sub-total Sciences | 1,131 | 69.6 | 1,176 | 68.2 | 1,284 | 66.6 | 1,175 | 62.0 | 1,012 | 55.0 | 873 | 51.6 | 905 | 53.2 | 973 | 53.5 | 911 | 50.5 |
| Index | 100 | | 104 | | 114 | | 104 | | 89 | | 77 | | 80 | | 86 | | 80 | |
| Total | 1,625 | 100.0 | 1,724 | 100.0 | 1,929 | 100.0 | 1,896 | 100.0 | 1,840 | 100.0 | 1,693 | 100.0 | 1,702 | 100.0 | 1,819 | 100.0 | 1,803 | 100.0 |
| Index | 100 | | 106 | | 119 | | 117 | | 113 | | 104 | | 104 | | 112 | | 111 | |

Note: Percentage indicates distribution by field of study.

# Table 11

## Earned Doctoral Degrees by Field of Study and by Sex, 1969-70 to 1979

| Field of Study | | 1969-70 | | 1970-71 | | 1971-72 | | 1972-73 | | 1974 | | 1975 | | 1976 | | 1977 | | 1978 | | 1979 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Education | Male | 61 | 79.5 | 72 | 93.5 | 97 | 89.0 | 99 | 81.2 | 111 | 86.7 | 122 | 70.9 | 111 | 70.7 | 131 | 75.7 | 118 | 75.2 | 137 | 71.0 |
| | Female | 16 | 20.5 | 5 | 6.5 | 12 | 11.0 | 23 | 18.8 | 17 | 13.3 | 50 | 29.1 | 46 | 29.3 | 42 | 24.3 | 39 | 24.8 | 56 | 29.0 |
| | Total | 78 | 100.0 | 77 | 100.0 | 109 | 100.0 | 122 | 100.0 | 128 | 100.0 | 172 | 100.0 | 157 | 100.0 | 173 | 100.0 | 157 | 100.0 | 193 | 100.0 |
| Fine & Applied Arts | Male | 2 | 66.7 | 5 | 83.3 | 3 | 50.0 | 5 | 100.0 | 4 | 100.0 | 5 | 71.4 | 3 | 60.0 | 8 | 72.7 | 2 | 28.6 | 8 | 72.7 |
| | Female | 1 | 33.3 | 1 | 16.7 | 3 | 50.0 | - | - | - | - | 2 | 28.6 | 2 | 40.0 | 3 | 27.3 | 5 | 71.4 | 3 | 27.3 |
| | Total | 3 | 100.0 | 6 | 100.0 | 6 | 100.0 | 5 | 100.0 | 4 | 100.0 | 7 | 100.0 | 5 | 100.0 | 11 | 100.0 | 7 | 100.0 | 11 | 100.0 |
| Humanities | Male | 112 | 72.7 | 141 | 77.5 | 162 | 80.2 | 183 | 80.3 | 198 | 75.0 | 216 | 78.0 | 161 | 64.9 | 170 | 66.4 | 180 | 69.5 | 196 | 67.4 |
| | Female | 42 | 27.3 | 41 | 22.5 | 40 | 19.8 | 45 | 19.7 | 66 | 25.0 | 61 | 22.0 | 87 | 35.1 | 86 | 33.6 | 79 | 30.5 | 95 | 32.6 |
| | Total | 154 | 100.0 | 182 | 100.0 | 202 | 100.0 | 228 | 100.0 | 264 | 100.0 | 277 | 100.0 | 248 | 100.0 | 256 | 100.0 | 259 | 100.0 | 291 | 100.0 |
| Social Sciences | Male | 142 | 85.5 | 193 | 84.3 | 197 | 85.3 | 238 | 82.1 | 254 | 78.2 | 299 | 80.4 | 326 | 79.5 | 272 | 76.2 | 323 | 76.4 | 296 | 74.6 |
| | Female | 24 | 14.5 | 36 | 15.7 | 34 | 14.7 | 52 | 17.9 | 71 | 21.8 | 73 | 19.6 | 84 | 20.5 | 85 | 23.8 | 100 | 23.6 | 101 | 25.4 |
| | Total | 166 | 100.0 | 229 | 100.0 | 231 | 100.0 | 290 | 100.0 | 325 | 100.0 | 372 | 100.0 | 410 | 100.0 | 357 | 100.0 | 423 | 100.0 | 397 | 100.0 |
| Sub-total Human Sc. | Male | 318 | 79.3 | 411 | 83.2 | 459 | 83.8 | 525 | 81.4 | 567 | 78.6 | 642 | 77.5 | 601 | 73.3 | 581 | 72.9 | 623 | 73.6 | 637 | 71.4 |
| | Female | 83 | 20.7 | 83 | 16.8 | 89 | 16.2 | 120 | 18.6 | 154 | 21.4 | 186 | 22.5 | 219 | 26.7 | 216 | 27.1 | 223 | 26.4 | 255 | 28.6 |
| | Total | 401 | 100.0 | 494 | 100.0 | 548 | 100.0 | 645 | 100.0 | 721 | 100.0 | 828 | 100.0 | 820 | 100.0 | 797 | 100.0 | 846 | 100.0 | 892 | 100.0 |
| Agriculture | Male | 214 | 91.1 | 253 | 91.7 | 216 | 90.0 | 219 | 87.6 | 220 | 89.1 | 198 | 82.2 | 160 | 80.4 | 202 | 88.6 | 199 | 86.3 | 193 | 86.2 |
| | Female | 21 | 8.9 | 23 | 8.3 | 24 | 10.0 | 31 | 12.4 | 27 | 10.9 | 43 | 17.8 | 39 | 19.6 | 26 | 11.4 | 40 | 16.7 | 31 | 13.8 |
| | Total | 235 | 100.0 | 276 | 100.0 | 240 | 100.0 | 250 | 100.0 | 247 | 100.0 | 241 | 100.0 | 199 | 100.0 | 228 | 100.0 | 239 | 100.0 | 224 | 100.0 |
| Engineering | Male | 188 | 100.0 | 225 | 100.0 | 260 | 99.6 | 289 | 96.7 | 297 | 98.7 | 218 | 96.0 | 178 | 94.2 | 201 | 99.0 | 217 | 96.9 | 222 | 96.1 |
| | Female | - | - | - | - | 1 | 0.4 | 10 | 3.3 | 4 | 1.3 | 9 | 4.0 | 11 | 5.8 | 2 | 1.0 | 7 | 3.1 | 9 | 3.9 |
| | Total | 188 | 100.0 | 225 | 100.0 | 261 | 100.0 | 299 | 100.0 | 301 | 100.0 | 227 | 100.0 | 189 | 100.0 | 203 | 100.0 | 224 | 100.0 | 231 | 100.0 |
| Health Sciences | Male | 87 | 91.6 | 91 | 89.2 | 128 | 84.8 | 145 | 81.5 | 132 | 86.3 | 97 | 79.5 | 84 | 80.0 | 78 | 74.3 | 97 | 77.6 | 91 | 67.9 |
| | Female | 8 | 8.4 | 11 | 10.8 | 23 | 15.2 | 33 | 18.5 | 21 | 13.7 | 25 | 20.5 | 21 | 20.0 | 27 | 25.7 | 28 | 22.4 | 43 | 32.1 |
| | Total | 95 | 100.0 | 102 | 100.0 | 151 | 100.0 | 178 | 100.0 | 153 | 100.0 | 122 | 100.0 | 105 | 100.0 | 105 | 100.0 | 125 | 100.0 | 134 | 100.0 |
| Math. & Phys. Sciences | Male | 440 | 96.5 | 494 | 93.6 | 501 | 95.6 | 534 | 95.9 | 446 | 94.1 | 390 | 92.4 | 352 | 92.6 | 334 | 90.5 | 352 | 91.4 | 287 | 90.2 |
| | Female | 16 | 3.5 | 34 | 6.4 | 23 | 4.4 | 23 | 4.1 | 28 | 5.9 | 32 | 7.6 | 28 | 7.4 | 35 | 9.5 | 33 | 8.6 | 31 | 9.8 |
| | Total | 456 | 100.0 | 528 | 100.0 | 524 | 100.0 | 557 | 100.0 | 474 | 100.0 | 422 | 100.0 | 380 | 100.0 | 369 | 100.0 | 385 | 100.0 | 318 | 100.0 |
| Sub-total Sciences | Male | 929 | 95.4 | 1,063 | 94.0 | 1,105 | 94.0 | 1,187 | 92.4 | 1,095 | 93.2 | 903 | 89.2 | 774 | 88.7 | 815 | 90.1 | 865 | 88.9 | 793 | 87.4 |
| | Female | 45 | 4.6 | 68 | 6.0 | 71 | 6.0 | 97 | 7.6 | 80 | 6.8 | 109 | 10.8 | 99 | 11.3 | 90 | 9.9 | 108 | 11.1 | 114 | 12.6 |
| | Total | 974 | 100.0 | 1,131 | 100.0 | 1,176 | 100.0 | 1,284 | 100.0 | 1,175 | 100.0 | 1,012 | 100.0 | 873 | 100.0 | 905 | 100.0 | 973 | 100.0 | 907 | 100.0 |
| Total | Male | 1,247 | 90.7 | 1,474 | 90.7 | 1,564 | 90.7 | 1,712 | 88.8 | 1,662 | 87.7 | 1,544 | 83.9 | 1,375 | 81.2 | 1,396 | 82.0 | 1,488 | 81.8 | 1,430 | 79.5 |
| | Female | 128 | 9.3 | 151 | 9.3 | 160 | 9.3 | 217 | 11.2 | 234 | 12.3 | 296 | 16.1 | 318 | 18.8 | 306 | 18.0 | 331 | 18.2 | 369 | 20.5 |
| | Total | 1,375 | 100.0 | 1,625 | 100.0 | 1,724 | 100.0 | 1,929 | 100.0 | 1,896 | 100.0 | 1,840 | 100.0 | 1,693 | 100.0 | 1,702 | 100.0 | 1,819 | 100.0 | 1,799 | 100.0 |

The number of Ph.D.'s granted to men has remained rather constant for all fields of study: 1,474 in 1970-71 and 1,430 in 1979, while those awarded to females increased from 151 to 369 (Table 11). Thus, the percentage of all Ph.D.'s earned by women rose from 10% of the 1970-71 total to 20% in 1979. In the humanities, one out of three recipients are now female. ( More detailed information by discipline and by sex are given in Appendix Tables A-16 to A-35.)

## Part III

## Anticipated Supply of Doctorates During the Early Eighties

This section of the report deals with the relationship between doctoral enrolment and degrees awarded, and projects the supply of Ph.D.'s by discipline for five years (1981 to 1985).

The relationship between enrolment and degrees awarded, on a discipline basis, could serve as a measure of the length of time it takes to obtain a Ph.D., and indirectly as a measure of the productivity of graduate schools, assuming a "steady state" situation.[2] Expressed differently, the success rate of those who were enrolled in doctoral studies is being measured.

For all fields of study, doctoral degrees as a percentage of enrolment has remained relatively stable in the neighbourhood of 13-14% (Table 12). However, this varied by sex. During the ten year period (1970-71 to 1979-80), the percentage for male Ph.D. recipients was 14.8%, as compared with 8.4% for females. This difference cannot be explained without further analysis. However, one possible explanation is the family formation.

This proportion varied substantially by field of study and by discipline. For most of the sciences, Ph.D. degrees came to roughly 20% of enrolment; in the human sciences, they accounted

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[2] Ideally, it would have been preferable to trace the academic activities of a specific cohort, those who had enrolled in their doctoral program in 1970-71, and document what has happened to them e.g. if and when they obtained their degree. Unfortunately, this information is not available, and a proxy measure has to be used.

Table 12

**Full- and Part-time Doctoral Enrolment and Degrees Awarded, by Sex, 1970-71 to 1979-80**

| | Enrolment | | | Degrees Awarded | | | Degrees as a Percentage Of Enrolment | | |
|---|---|---|---|---|---|---|---|---|---|
| Academic Year | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 1970-71 | 10,461 (82.9) | 2,162 (17.1) | 12,623 (100.0) | 1,247 (90.7) | 128 (9.3) | 1,375 (100.0) | 11.9 | 5.9 | 10.9 |
| 1971-72 | 10,662 (82.0 | 2,338 (18.0) | 13,000 (100.0) | 1,474 (90.7) | 151 (9.3) | 1,625 (100.0) | 13.8 | 6.5 | 12.5 |
| 1972-73 | 10,788 (80.4) | 2,636 (19.6) | 13,424 (100.0) | 1,564 (90.7) | 160 (9.3) | 1,724 (100.0) | 14.5 | 6.1 | 12.8 |
| 1973-74 | 10,325 (79.0) | 2,745 (21.0) | 13,072 (100.0) | 1,712 (88.8) | 217 (11.2) | 1,929 (100.0) | 16.6 | 7.9 | 14.8 |
| 1974-75 | 10,022 (76.4) | 2,959 (22.6) | 13,116 (100.0) | 1,662 (87.7) | 234 (12.3) | 1,896 (100.0) | 16.6 | 7.9 | 14.5 |
| 1975-76 | 9,915 (75.2) | 3,124 (23.7) | 13,182 (100.0) | 1,544 (83.9) | 296 (16.1) | 1,840 (100.0) | 15.6 | 9.5 | 14.0 |
| 1976-77 | 9,943 (75.0) | 3,305 (24.9) | 13,260 (100.0) | 1,375 (81.2) | 318 (18.8) | 1,695 (100.0) | 13.8 | 9.6 | 12.8 |
| 1977-78 | 9,724 (73.8) | 3,432 (26.1) | 13,171 (100.0) | 1,396 (82.0) | 306 (18.0) | 1,702 (100.0 | 14.4 | 8.9 | 12.9 |
| 1978-79 | 9,369 (72.6) | 3,544 (27.4) | 12,913 (100.0) | 1,488 (81.8) | 331 (18.2) | 1,819 (100.0 | 15.9 | 9.3 | 14.1 |
| 1979-80 | 9,235 (70.9) | 3,793 (29.1) | 13,028 (100.0) | 1,434 (79.5) | 369 (20.5) | 1,803 (100.0) | 15.5 | 9.7 | 13.8 |
| 10 Year Total | 100,444 (76.8) | 30,038 (23.0) | 130,789 (100.0) | 14,896 (85.6) | 2,510 (14.4) | 17,406 (100.0) | 14.8 | 8.4 | 13.3 |

for 9% (Table 13). These figures indicate that, on average, it took doctoral students in the humanities and social sciences more than twice as long to complete their studies as those in the sciences. This difference remained reasonably stable throughout the decade with some variation by discipline (e.g. 7.0% in sociology and 23.5% in chemistry).

Based on doctoral enrolment figures for 1979-80, and estimates for 1980-81, it is possible to project with some certainty the number of doctoral degrees expected in individual disciplines for the next three to five years, including post-doctoral training (Table 14). This projection has been developed by excluding foreign students (10% to 30%) and making assumptions about withdrawal rates (25% to 50%), and the time required (3 to 5 years) for individual disciplines, based on historical trends and sensitivity analysis of these variables. These calculations show the average annual output of Ph.D.'s expected between 1981 and 1985.[3]

Overall, Canadians and permanent residents will receive 1,527 Ph.D.'s each year from Canadian universities. Narrowing the figures down to specific disciplines, 96 Ph.D.'s will be awarded in chemistry, and a total of 133 for all engineering disciplines.

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[3] These calculations exclude the declining number of Canadians and permanent residents who obtain their degree abroad, particularly in the United States and the United Kingdom. It has been estimated that primarily in the humanities and social sciences, 150-250 obtained their doctorates in other countries and returned to Canada each year (many of them to previously held positions).

# Table 13

Full- and Part-Time Doctoral Enrolment and Degrees Awarded
by Fields of Study and Selected Disciplines at Canadian Universities, Selected Years

| Fields of Study and Disciplines | Enrolment | | | | | Degrees Awarded | | | | | Degrees as a Percentage of Enrolment | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1970-71 No. | 1970-71 Index | 1979-80 No. | 1979-80 Index | Ten Year Average (1970-71 to 1979-80) | 1970-71 No. | 1970-71 Index | 1979 No. | 1979 Index | Ten Year Average (1969-70 to 1979) | 1970-71 | 1979-80 | Ten Year Average |
| Education | 874 (7.0) | 100 | 1,548 (11.9) | 177 | 1,254 (9.6) | 77 (4.7) | 100 | 193 (10.7) | 250 | 137 (7.9) | 8.8 | 12.5 | 10.9 |
| Fine & Applied Arts | 72 (0.6) | 100 | 112 (0.9) | 156 | 92 (0.7) | 6 (0.4) | 100 | 11 (0.6) | 183 | 6 (0.3) | 8.3 | 9.8 | 7.0 |
| Classics | 99 | 100 | 78 | 79 | 81 | 3 | 100 | 11 | 367 | 7 | 9.1 | 14.1 | 9.0 |
| English | 680 | 100 | 633 | 93 | 760 | 49 | 100 | 82 | 167 | 66 | 7.2 | 13.0 | 8.7 |
| French | 343 | 100 | 300 | 87 | 339 | 18 | 100 | 27 | 150 | 22 | 5.2 | 9.0 | 6.6 |
| Other Languages & Literature | 264 | 100 | 349 | 132 | 290 | 28 | 100 | 29 | 104 | 30 | 10.6 | 8.3 | 9.8 |
| History | 515 | 100 | 457 | 89 | 522 | 36 | 100 | 54 | 150 | 47 | 7.0 | 11.8 | 8.9 |
| Philosophy | 463 | 100 | 474 | 102 | 463 | 34 | 100 | 56 | 165 | 40 | 7.3 | 11.8 | 8.6 |
| Religious Studies | 267 | 100 | 231 | 87 | 271 | 14 | 100 | 17 | 121 | 22 | 5.2 | 7.4 | 8.3 |
| Other Humanities | 113 | 100 | 182 | 161 | 140 | - | - | 15 | - | 2 | | 8.2 | 1.7 |
| Sub-total Humanities | 2,744 (21.8) | 100 | 2,704 (20.8) | 99 | 2,869 (22.1) | 182 (11.2) | 100 | 291 (16.1) | 160 | 236 (13.6) | 6.6 | 10.8 | 8.2 |
| Anthropology (incl. Arch. | 156 | 100 | 219 | 140 | 197 | 7 | 100 | 23 | 329 | 14 | 4.5 | 10.5 | 6.8 |
| Management & Admin. Studies | 64 | 100 | 200 | 312 | 123 | 4 | 100 | 18 | 450 | 11 | 6.2 | 9.0 | 8.9 |
| Economics | 428 | 100 | 635 | 148 | 576 | 14 | 100 | 60 | 440 | 44 | 3.3 | 9.4 | 7.6 |
| Geography | 195 | 100 | 217 | 111 | 229 | 18 | 100 | 28 | 156 | 26 | 9.2 | 12.9 | 11.6 |
| Law | 66 | 100 | 53 | 80 | 58 | 15 | 100 | 6 | 40 | 7 | 22.7 | 11.3 | 11.7 |
| Political Science | 198 | 100 | 319 | 161 | 296 | 9 | 100 | 30 | 333 | 19 | 4.6 | 9.4 | 6.5 |
| Psychology | 929 | 100 | 1,289 | 139 | 1,197 | 119 | 100 | 154 | 129 | 133 | 12.8 | 12.0 | 11.2 |
| Social Work | 28 | 100 | 54 | 193 | 42 | 1 | 100 | 3 | 300 | 4 | 3.6 | 5.6 | 8.9 |
| Sociology | 308 | 100 | 447 | 145 | 455 | 9 | 100 | 49 | 544 | 32 | 2.9 | 11.0 | 7.0 |
| Other Social Sciences | 271 | 100 | 243 | 90 | 314 | 23 | 100 | 26 | 113 | 30 | 8.5 | 10.7 | 9.6 |
| Sub-total Social Sciences | 2,643 (21.0) | 100 | 3,676 (28.3) | 139 | 3,486 (26.8) | 229 (14.1) | 100 | 397 (22.0) | 174 | 320 (18.4) | 8.7 | 10.8 | 9.2 |
| Total Human Sciences | 6,333 (50.4) | 100 | 8,040 (62.0) | 127 | 7,701 (59.2) | 494 (30.4) | 100 | 892 (49.5) | 180 | 699 (40.2) | 7.8 | 11.1 | 9.1 |
| Agriculture | 269 | 100 | 241 | 90 | 238 | 46 | 100 | 49 | 107 | 51 | 17.1 | 20.3 | 21.2 |
| Biology, Botany & Zoology | 823 | 100 | 734 | 90 | 717 | 152 | 100 | 147 | 97 | 145 | 18.5 | 20.3 | 20.2 |
| Other Biological Sciences | 130 | 100 | 151 | 116 | 174 | 38 | 100 | 28 | 74 | 38 | 29.2 | 18.5 | 21.9 |
| Sub-total Agriculture & Biological Studies | 1,238 (9.9) | 100 | 1,126 (8.7) | 91 | 1,131 (8.7) | 236 (14.5) | 100 | 224 (12.4) | 95 | 234 (13.4) | 19.1 | 19.9 | 20.7 |
| Engineering | 1,462 (11.6) | 100 | 1,076 (8.3) | 74 | 1,293 (10.0) | 225 (13.9) | 100 | 231 (12.8) | 103 | 235 (13.5) | 15.4 | 21.5 | 18.2 |
| Health Sciences | 791 (6.3) | 100 | 760 (5.9) | 96 | 651 (5.0) | 142 (8.7) | 100 | 134 (7.4) | 94 | 131 (7.5) | 18.0 | 17.6 | 20.1 |
| Mathematics | 642 | 100 | 465 | 72 | 568 | 85 | 100 | 61 | 72 | 87 | 13.2 | 13.1 | 15.4 |
| Chemistry | 1,032 | 100 | 653 | 63 | 755 | 241 | 100 | 110 | 46 | 178 | 23.3 | 16.8 | 23.5 |
| Geology | 244 | 100 | 263 | 108 | 251 | 38 | 100 | 46 | 121 | 42 | 15.6 | 17.5 | 16.5 |
| Physics | 721 | 100 | 467 | 65 | 540 | 136 | 100 | 88 | 65 | 114 | 18.9 | 18.8 | 21.1 |
| Other Math. & Physical Sc. | 104 | 100 | 122 | 117 | 105 | 28 | 100 | 17 | 61 | 210 | 26.9 | 13.9 | 20.0 |
| Sub-total Math. & Physical Sc. | 2,743 (21.8) | 100 | 1,970 (15.2) | 72 | 2,220 (17.1) | 528 (32.5) | 100 | 322 (17.9) | 61 | 442 (25.4) | 19.2 | 16.4 | 19.9 |
| Total Sciences | 6,234 (49.6) | 100 | 4,932 (38.0) | 79 | 5,295 (40.8) | 1,131 (69.6) | 100 | 911 (50.5) | 124 | 1,042 (59.8) | 18.1 | 18.5 | 19.7 |
| Not Specified | 56 | 100 | 56 | 100 | 89 | - | - | - | - | - | - | - | - |
| Grand Total | 12,623 (100.0) | 100 | 13,028 (100.0) | 103 | 13,085 (100.0) | 1,625 100.0) | 100 | 1,803 (100.0) | 111 | 1,741 (100.0) | 12.9 | 13.8 | 13.3 |
| Male | (82.9) | | (70.9) | | (76.8) | (90.7) | | (79.5) | | (85.6) | 13.8 | 15.5 | 14.8 |
| Female | (17.1) | | (29.1) | | (23.0) | (9.3) | | (20.5) | | (14.4) | 6.5 | 9.7 | 8.4 |
| Total | (100.0) | | (100.0) | | (100.0) | (100.0) | | (100.0) | | (100.0) | - | - | - |

Note: The percentage in brackets show the distribution by field of study, and by sex.

Source: Derived from Statistics Canada Data.

Table 14

Projected Supply of Ph.D.'s by Field of Study and Selected Disciplines, 1981 to 1985

| | 1979-80 Enrolment | Withdrawal Rate in % | Balance | Length of Study in Years | Degrees Granted Each Year 1981-1985 |
|---|---|---|---|---|---|
| Education | 1,334 | 50 | 667 | 4 | 167 |
| Fine and Applied Arts | 101 | 60 | 40 | 4 | 10 |
| Classics | 66 | 30 | 46 | 4 | 11 |
| English | 513 | 55 | 231 | 4 | 58 |
| French | 263 | 55 | 118 | 4 | 30 |
| Other Languages and Literature | 395 | 55 | 178 | 5 | 36 |
| History | 385 | 40 | 231 | 4 | 58 |
| Philosophy | 338 | 45 | 186 | 4 | 46 |
| Religious Studies | 192 | 45 | 106 | 4 | 26 |
| Other Humanities | 38 | 45 | 21 | 4 | 5 |
| Sub-total Humanities | 2,190 | 51 | 1,117 | 4 | 279 |
| Anthropology (incl. Archaeology | 200 | 50 | 100 | 4 | 25 |
| Management and Admin. Studies | 156 | 50 | 78 | 4 | 20 |
| Economics | 386 | 50 | 193 | 4 | 48 |
| Geography | 139 | 40 | 83 | 4 | 21 |
| Law | 35 | 50 | 18 | 4 | 4 |
| Political Science | 239 | 55 | 108 | 4 | 27 |
| Psychology | 1,081 | 50 | 541 | 4 | 135 |
| Social Work | 51 | 50 | 26 | 4 | 6 |
| Sociology | 373 | 55 | 168 | 4 | 42 |
| Other Social Sciences | 119 | 50 | 60 | 4 | 15 |
| Sub-total Social Sciences | 2,779 | 50 | 1,375 | 4 | 344 |
| Total Human Sciences | 6,404 | 50 | 3,199 | 4 | 799 |
| Agriculture | 151 | 25 | 113 | 3 | 37 |
| Biology, Botany and Zoology | 576 | 40 | 346 | 3 | 115 |
| Other Biological Sciences | 115 | 20 | 92 | 3 | 31 |
| Sub-total Agriculture & Biological Sciences | 842 | 35 | 551 | 3 | 187 |
| Engineering | 724 | 45 | 398 | 3 | 133 |
| Health Sciences | 669 | 30 | 468 | 4 | 117 |
| Mathematics | 333 | 30 | 233 | 3 | 77 |
| Chemistry | 412 | 30 | 288 | 3 | 96 |
| Geology | 174 | 45 | 96 | 3 | 32 |
| Physics | 351 | 35 | 228 | 3 | 76 |
| Other Mathematics & Physical Sciences | 39 | 35 | 25 | 3 | 8 |
| Sub-total Mathematics & Physical Sciences | 1,309 | 35 | 870 | 3 | 289 |
| Total Sciences | 3,544 | 35 | 2,287 | 3 | 762 |
| Total | 9,948 | 45 | 5,486 | 3.6 | 1,527 |

In the humanities and social sciences, there will be an annual total of 799 (e.g. 58 in English, 46 in philosophy, 48 in economics and 42 in sociology).

It appears that the supply of Ph.D.'s is repeating a cycle of surpluses and shortages. On the one hand, the humanities, and some social science disciplines, may be faced with increasing surpluses, especially if Ph.D. holders in these areas continue to look to the universities for employment. On the other hand, it seems highly improbable that the sciences and some applied social sciences, such as management and administrative studies, will produce enough doctoral graduates to allow governments to carry out its latest plans for R & D expenditures. In the past, the immigration of doctoral degree holders provided some flexibility in filling Canada's teaching and research requirements.

The potential imbalance between the demand for highly qualified manpower to replace present researchers as they approach retirement, and the fixed supply, at least for the next three to five years, creates serious obstacles for Canadian society in achieving its goals for this decade.

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## Supporting Tables

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# Table A-1

Full-and Part-time Doctoral Enrolment by Field of Study and Selected Disciplines, 1970-71 to 1979-80

| | 1970-71 | | 1971-72 | | 1972-73 | | 1973-74 | | 1974-75 | | 1975-76 | | 1976-77 | | 1977-78 | | 1978-79 | | 1979-80 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index |
| **Education** | 874 | 100 | 987 | 113 | 1,082 | 124 | 1,183 | 135 | 1,271 | 145 | 1,346 | 154 | 1,437 | 164 | 1,349 | 154 | 1,458 | 167 | 1,548 | 177 |
| Fine and Applied Arts | 72 | 100 | 69 | 96 | 82 | 114 | 91 | 126 | 94 | 131 | 98 | 136 | 93 | 129 | 106 | 147 | 108 | 150 | 112 | 156 |
| Classics | 99 | 100 | 94 | 95 | 88* | 89 | 82* | 83 | 76 | 77 | 76 | 77 | 70 | 71 | 75 | 76 | 70 | 71 | 78 | 79 |
| English | 680 | 100 | 766 | 113 | 821 | 121 | 793 | 117 | 83[illegible] | 123 | 823 | 121 | 781 | 115 | 754 | 111 | 712 | 105 | 633 | 93 |
| French | 343 | 100 | 372 | 108 | 405 | 118 | 353 | 103 | 343 | 100 | 331 | 96 | 322 | 94 | 319 | 93 | 299 | 87 | 300 | 87 |
| Other Languages and Literature | 264 | 100 | 254 | 96 | 293 | 111 | 300** | 114 | 324 | 123 | 292 | 111 | 269 | 102 | 286 | 108 | 269 | 102 | 349 | 132 |
| History | 515 | 100 | 539 | 105 | 551 | 107 | 558 | 108 | 523 | 102 | 562 | 109 | 535 | 104 | 504 | 98 | 473 | 92 | 457 | 89 |
| Philosophy | 463 | 100 | 460 | 99 | 507 | 109 | 479 | 103 | 463 | 100 | 478 | 103 | 460 | 99 | 432 | 93 | 417 | 90 | 474 | 102 |
| Religious Studies | 267 | 100 | 312 | 117 | 323 | 121 | 298 | 112 | 273 | 102 | 219 | 82 | 278 | 104 | 277 | 104 | 234 | 88 | 231 | 87 |
| Other Humanities | 113 | 100 | 158 | 140 | 157 | 139 | 186* | 135 | 146 | 129 | 132 | 117 | 122 | 108 | 116 | 103 | 124 | 110 | 182 | 161 |
| Sub-total Humanities | 2,744 | 100 | 2,955 | 108 | 3,145 | 115 | 3,047 | 111 | 2,981 | 109 | 2,913 | 106 | 2,837 | 103 | 2,763 | 100 | 2,598 | 95 | 2,704 | 99 |
| Anthropology (incl. Archaeology) | 156 | 100 | 171 | 110 | 165 | 106 | 173 | 111 | 196 | 126 | 217 | 139 | 222 | 142 | 228 | 146 | 224 | 144 | 219 | 140 |
| Management and Admin. Studies | 64 | 100 | 85 | 133 | 104 | 162 | 103 | 161 | 110 | 172 | 132 | 206 | 121 | 189 | 146 | 228 | 165 | 258 | 200 | 312 |
| Economics | 428 | 100 | 488 | 114 | 482** | 113 | 582 | 136 | 599 | 140 | 623 | 146 | 632 | 148 | 659 | 154 | 629 | 147 | 635 | 148 |
| Geography | 195 | 100 | 225 | 115 | 250 | 128 | 243 | 125 | 238 | 122 | 221 | 113 | 237 | 122 | 235 | 121 | 226 | 116 | 217 | 111 |
| Law | 66 | 100 | 64 | 97 | 63 | 95 | 60 | 91 | 61 | 92 | 67 | 102 | 44 | 67 | 56 | 85 | 46 | 70 | 53 | 80 |
| Political Science | 198 | 100 | 258 | 130 | 338 | 171 | 294 | 149 | 305 | 154 | 293 | 148 | 316 | 160 | 317 | 160 | 318 | 161 | 319 | 161 |
| Psychology | 929 | 100 | 1,018 | 110 | 1,095 | 118 | 1,177 | 127 | 1,208 | 130 | 1,312 | 141 | 1,335 | 114 | 1,333 | 143 | 1,273 | 137 | 1,289 | 139 |
| Social Work | 28 | 100 | 34 | 121 | 36 | 129 | 37 | 132 | 40 | 143 | 44 | 157 | 61 | 218 | 45 | 161 | 46 | 164 | 54 | 193 |
| Sociology | 308 | 100 | 334 | 108 | 408 | 132 | 445 | 144 | 481 | 156 | 515 | 167 | 509 | 165 | 559 | 181 | 545 | 177 | 447 | 145 |
| Other Social Sciences | 271 | 100 | 255 | 94 | 322 | 119 | 334 | 123 | 280 | 103 | 318 | 117 | 374 | 138 | 367 | 135 | 374 | 138 | 243 | 90 |
| Sub-total Social Sciences | 2,643 | 100 | 2,932 | 111 | 3,263 | 123 | 3,448 | 130 | 3,518 | 133 | 3,742 | 142 | 3,851 | 146 | 3,945 | 149 | 3,846 | 146 | 3,676 | 139 |
| Total Human Sciences | 5,333 | 100 | 5,943 | 110 | 7,572 | 120 | 7,769 | 123 | 7,864 | 124 | 8,099 | 128 | 8,218 | 130 | 8,163 | 129 | 8,010 | 126 | 8,040 | 127 |
| Agriculture | 269 | 100 | 257 | 96 | 248 | 92 | 214 | 80 | 176** | 65 | 230 | 86 | 260 | 97 | 245 | 91 | 245 | 91 | 241 | 90 |
| Biology, Botany, Zoology | 823 | 100 | 795 | 97 | 693 | 84 | 730 | 89 | 680 | 83 | 688 | 84 | 642 | 78 | 678 | 82 | 706 | 86 | 734 | 90 |
| Other Biological Sciences | 130 | 100 | 182 | 140 | 172 | 132 | 188 | 145 | 166 | 128 | 195 | 150 | 225 | 173 | 193 | 148 | 139 | 107 | 151 | 116 |
| Sub-total Agriculture & Biological Sciences | 1,238 | 100 | 1,234 | 100 | 1,113 | 90 | 1,132 | 91 | 1,022 | 83 | 1,113 | 90 | 1,127 | 91 | 1,116 | 90 | 1,090 | 88 | 1,126 | 91 |
| Engineering | 1,462 | 100 | 1,423 | 97 | 1,440 | 98 | 1,335 | 91 | 1,278 | 87 | 1,252 | 86 | 1,257 | 86 | 1,243 | 85 | 1,164 | 80 | 1,076 | 74 |
| Health Sciences | 791 | 100 | 686 | 87 | 646 | 82 | 586 | 74 | 558 | 71 | 589 | 74 | 578 | 73 | 614 | 78 | 702 | 89 | 760 | 96 |
| Mathematics | 642 | 100 | 659 | 103 | 672 | 105 | 598 | 93 | 543 | 85 | 543 | 85 | 547 | 85 | 528 | 82 | 485 | 76 | 465 | 72 |
| Chemistry | 1,032 | 100 | 961 | 93 | 889 | 86 | 763 | 74 | 683 | 66 | 659 | 64 | 644 | 62 | 644 | 62 | 625 | 61 | 653 | 63 |
| Geology | 244 | 100 | 253 | 104 | 242 | 99 | 242 | 99 | 253 | 104 | 268 | 110 | 260 | 107 | 252 | 103 | 234 | 96 | 263 | 108 |
| Physics | 721 | 100 | 697 | 97 | 581 | 81 | 508 | 70 | 496 | 69 | 489 | 68 | 492 | 68 | 475 | 66 | 476 | 66 | 467 | 65 |
| Other Mathematics & Physical Sciences | 104 | 100 | 91 | 88 | 117 | 112 | 140 | 135 | 117 | 112 | 133 | 128 | 92 | 88 | 70 | 67 | 64 | 62 | 122 | 117 |
| Sub-total Mathematics & Physical Sciences | 2,743 | 100 | 2,661 | 97 | 2,501 | 91 | 2,251 | 82 | 2,092 | 76 | 2,092 | 76 | 2,035 | 74 | 1,969 | 72 | 1,884 | 69 | 1,970 | 72 |
| Total Sciences | 6,234 | 100 | 6,004 | 96 | 5,701 | 91 | 5,304 | 85 | 4,950 | 79 | 5,046 | 81 | 4,997 | 80 | 4,942 | 79 | 4,840 | 78 | 4,932 | 79 |
| Total | 12,567 | 100 | 12,947 | 103 | 13,272 | 106 | 13,073 | 104 | 12,814 | 102 | 13,145 | 105 | 13,215 | 105 | 13,105 | 104 | 12,850 | 102 | 12,972 | 103 |
| Not Specified | 56 | 100 | 53 | 95 | 152 | 271 | 61 | 109 | 302 | 539 | 37 | 66 | 45 | 80 | 66 | 118 | 63 | 112 | 56 | 100 |
| Grand Total | 12,623 | 100 | 13,000 | 103 | 13,424 | 106 | 13,134 | 104 | 13,116 | 104 | 13,182 | 104 | 13,260 | 105 | 13,171 | 104 | 12,913 | 102 | 13,028 | 103 |

# Table A-2

## Full and Part-Time Doctoral Enrolment by Field of Study and Selected Disciplines, 1970-71 to 1979-80

| | 1970-71 | | | 1971-72 | | | 1972-73 | | | 1973-74 | | | 1974-75 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total |
| **Education** | 580 | 294 | 874 | 618 | 369 | 987 | 654 | 428 | 1,082 | 659 | 524 | 1,183 | 679 | 592 | 1,271 |
| **Fine and Applied Arts** | 45 | 27 | 72 | 48 | 21 | 69 | 54 | 28 | 82 | 57 | 34 | 91 | 59 | 35 | 94 |
| Classics | 67 | 32 | 99 | 64 | 30 | 94 | 60* | 28* | 88* | 55* | 27* | 82* | 50 | 26 | 76 |
| English | 537 | 143 | 680 | 610 | 156 | 766 | 603 | 218 | 821 | 566 | 227 | 793 | 588 | 247 | 835 |
| French | 206 | 137 | 343 | 198 | 174 | 372 | 226 | 179 | 405 | 161 | 192 | 353 | 194 | 149 | 343 |
| Other Languages and Literature | 201 | 63 | 264 | 188 | 66 | 254 | 190 | 103 | 293 | 287** | 147** | 434** | 225 | 99 | 324 |
| History | 358 | 157 | 515 | 358 | 181 | 539 | 352 | 199 | 551 | 345 | 213 | 558 | 369 | 154 | 523 |
| Philosophy | 284 | 179 | 463 | 286 | 174 | 460 | 329 | 178 | 507 | 291 | 188 | 479 | 303 | 160 | 463 |
| Religious Studies | 188 | 79 | 267 | 180 | 132 | 312 | 180 | 143 | 323 | 155 | 143 | 298 | 142 | 131 | 298 |
| Other Humanities | 82 | 31 | 113 | 97 | 61 | 158 | 114 | 43 | 157 | 73 | 13 | 86 | 116 | 30 | 146 |
| **Sub-total Humanities** | 1,923 | 821 | 2,744 | 1,981 | 974 | 2,955 | 2,034 | 1,091 | 3,145 | 1,933 | 1,150 | 3,083 | 1,985 | 996 | 2,981 |
| Anthropology (Incl. Archaeology) | 119 | 37 | 156 | 124 | 47 | 171 | 115 | 50 | 165 | 112 | 61 | 173 | 148 | 48 | 196 |
| Management and Admin. Studies | 61 | 3 | 64 | 74 | 11 | 85 | 92 | 12 | 104 | 76 | 27 | 103 | 76 | 34 | 110 |
| Economics | 351 | 77 | 428 | 378 | 110 | 488 | 249** | 108** | 357** | 435 | 147 | 582 | 429 | 170 | 599 |
| Geography | 164 | 31 | 195 | 173 | 52 | 225 | 176 | 74 | 250 | 161 | 82 | 243 | 155 | 83 | 238 |
| Law | 19 | 47 | 66 | 19 | 45 | 64 | 26 | 37 | 63 | 21 | 39 | 60 | 32 | 29 | 61 |
| Political Science | 150 | 48 | 198 | 180 | 78 | 258 | 356** | 107** | 463** | 229 | 65 | 294 | 220 | 85 | 305 |
| Psychology | 675 | 254 | 929 | 700 | 318 | 1,018 | 691 | 404 | 1,095 | 726 | 451 | 1,177 | 765 | 443 | 1,208 |
| Social Work | 19 | 9 | 28 | 24 | 10 | 34 | 23 | 13 | 36 | 26 | 11 | 37 | 22 | 18 | 40 |
| Sociology | 225 | 83 | 308 | 235 | 99 | 334 | 269 | 139 | 408 | 285 | 160 | 445 | 323 | 158 | 481 |
| Other Social Sciences | 170 | 101 | 271 | 154 | 101 | 255 | 208 | 114 | 322 | 215 | 119 | 334 | 187 | 93 | 280 |
| **Sub-total Social Sciences** | 1,953 | 690 | 2,643 | 2,061 | 871 | 2,932 | 2,205 | 1,058 | 3,263 | 2,286 | 1,162 | 3,448 | 2,357 | 1,161 | 3,518 |
| Agriculture | 243 | 26 | 269 | 227 | 30 | 257 | 212 | 36 | 248 | 173 | 41 | 214 | 149 | 27 | 176 |
| Biology, Botany and Zoology | 716 | 107 | 823 | 693 | 102 | 795 | 584 | 109 | 693 | 598 | 132 | 730 | 571 | 109 | 680 |
| Other Biological Sciences | 130 | 16 | 146 | 164 | 18 | 182 | 149 | 23 | 172 | 162 | 26 | 188 | 143 | 23 | 166 |
| **Sub-total Agriculture and Biological Sciences** | 1,089 | 149 | 1,238 | 1,084 | 150 | 1,234 | 945 | 168 | 1,113 | 933 | 199 | 1,132 | 863 | 159 | 1,022 |
| **Engineering** | 1,250 | 212 | 1,462 | 1,162 | 261 | 1,423 | 1,178 | 262 | 1,440 | 1,047 | 288 | 1,335 | 986 | 292 | 1,278 |
| **Health Sciences** | 728 | 63 | 791 | 589 | 97 | 686 | 527 | 119 | 646 | 470 | 116 | 586 | 435 | 123 | 558 |
| Mathematics | 559 | 83 | 642 | 545 | 114 | 659 | 536 | 136 | 672 | 471 | 127 | 598 | 416 | 127 | 543 |
| Chemistry | 970 | 62 | 1,032 | 902 | 59 | 961 | 802 | 87 | 889 | 674 | 89 | 763 | 592 | 91 | 683 |
| Geology | 221 | 23 | 244 | 214 | 39 | 253 | 202 | 40 | 242 | 207 | 35 | 242 | 209 | 44 | 253 |
| Physics | 679 | 42 | 721 | 625 | 72 | 697 | 527 | 54 | 581 | 453 | 55 | 508 | 429 | 67 | 496 |
| Other Mathematics and Physical Sciences | 93 | 11 | 104 | 85 | 6 | 91 | 90 | 27 | 117 | 105 | 35 | 140 | 99 | 18 | 117 |
| **Sub-total Mathematics and Physical Sciences** | 2,522 | 221 | 2,743 | 2,371 | 290 | 2,661 | 2,157 | 344 | 2,501 | 1,910 | 341 | 2,251 | 1,745 | 347 | 2,092 |
| **Not Specified** | 51 | 5 | 56 | 53 | 0 | 53 | 130 | 22 | 152 | 47 | 14 | 61 | 262 | 40 | 302 |
| **Grand Total** | 10,141 | 2,482 | 12,623 | 9,967 | 3,033 | 13,000 | 9,904 | 3,520 | 13,424 | 9,342 | 3,830 | 13,172 | 9,371 | 3,745 | 13,116 |

* Estimated

** Possible classification error



...cont'd...

# Table A-2
# (cont'd)

**Full and Part-Time Doctoral Enrolment by Field of Study and Selected Disciplines, 1970-71 to 1979-80**

| | 1975-76 | | | 1976-77 | | | 1977-78 | | | 1978-79 | | | 1979-80 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total |
| **Education** | 722 | 624 | 1,346 | 748 | 689 | 1,437 | 759 | 590 | 1,349 | 834 | 624 | 1,458 | 892 | 656 | 1,548 |
| **Fine and Applied Arts** | 64 | 34 | 98 | 65 | 28 | 93 | 79 | 27 | 106 | 80 | 28 | 108 | 77 | 35 | 112 |
| Classics | 49 | 27 | 76 | 59 | 11 | 70 | 60 | 15 | 75 | 54 | 16 | 70 | 60 | 18 | 78 |
| English | 598 | 225 | 823 | 588 | 193 | 781 | 554 | 200 | 754 | 524 | 188 | 712 | 481 | 152 | 633 |
| French | 185 | 146 | 331 | 200 | 122 | 322 | 196 | 123 | 319 | 189 | 110 | 299 | 190 | 110 | 300 |
| Other Languages and Literature | 197 | 95 | 292 | 192 | 77 | 269 | 198 | 88 | 286 | 192 | 77 | 269 | 269 | 80 | 349 |
| History | 374 | 188 | 562 | 378 | 157 | 535 | 355 | 149 | 504 | 331 | 142 | 473 | 336 | 121 | 457 |
| Philosophy | 326 | 152 | 478 | 326 | 134 | 460 | 309 | 123 | 432 | 294 | 123 | 417 | 325 | 149 | 474 |
| Religious Studies | 103 | 116 | 219 | 161 | 117 | 278 | 187 | 90 | 277 | 149 | 85 | 234 | 150 | 81 | 231 |
| Other Humanities | 104 | 28 | 132 | 85 | 37 | 122 | 84 | 32 | 116 | 92 | 32 | 124 | 127 | 55 | 182 |
| **Sub-total Humanities** | 1,936 | 977 | 2,913 | 1,989 | 848 | 2,837 | 1,943 | 820 | 2,763 | 1,825 | 773 | 2,598 | 1,938 | 766 | 2,704 |
| Anthropology (Incl. Archaeology) | 157 | 60 | 217 | 176 | 46 | 222 | 174 | 54 | 228 | 171 | 53 | 224 | 166 | 53 | 219 |
| Management and Admin. Studies | 97 | 35 | 132 | 95 | 26 | 121 | 108 | 38 | 146 | 132 | 33 | 165 | 155 | 45 | 200 |
| Economics | 450 | 173 | 623 | 497 | 135 | 632 | 492 | 167 | 659 | 481 | 148 | 629 | 498 | 137 | 635 |
| Geography | 155 | 66 | 221 | 169 | 68 | 237 | 174 | 61 | 235 | 159 | 67 | 226 | 167 | 50 | 217 |
| Law | 35 | 32 | 67 | 25 | 19 | 44 | 33 | 23 | 56 | 32 | 14 | 46 | 34 | 19 | 53 |
| Political Science | 207 | 86 | 293 | 215 | 101 | 316 | 225 | 92 | 317 | 221 | 97 | 318 | 227 | 92 | 319 |
| Psychology | 814 | 498 | 1,312 | 862 | 473 | 1,335 | 870 | 463 | 1,333 | 844 | 429 | 1,273 | 849 | 440 | 1,289 |
| Social Work | 26 | 18 | 44 | 26 | 35 | 61 | 24 | 21 | 45 | 28 | 18 | 46 | 36 | 18 | 54 |
| Sociology | 331 | 184 | 515 | 354 | 155 | 509 | 363 | 196 | 559 | 373 | 172 | 545 | 306 | 141 | 447 |
| Other Social Sciences | 226 | 92 | 318 | 281 | 93 | 374 | 287 | 80 | 367 | 305 | 69 | 374 | 190 | 53 | 243 |
| **Sub-total Social Sciences** | 2,498 | 1,244 | 3,742 | 2,700 | 1,151 | 3,851 | 2,750 | 1,195 | 3,945 | 2,746 | 1,100 | 3,846 | 2,628 | 1,048 | 3,676 |
| Agriculture | 189 | 41 | 230 | 219 | 41 | 260 | 214 | 31 | 245 | 204 | 41 | 245 | 209 | 32 | 241 |
| Biology, Botany and Zoology | 571 | 117 | 688 | 559 | 83 | 642 | 589 | 89 | 678 | 616 | 90 | 706 | 669 | 65 | 734 |
| Other Biological Sciences | 164 | 31 | 195 | 203 | 22 | 225 | 171 | 22 | 193 | 132 | 7 | 139 | 143 | 8 | 151 |
| **Sub-total Agriculture and Biological Sciences** | 924 | 189 | 1,113 | 981 | 146 | 1,127 | 974 | 142 | 1,116 | 952 | 138 | 1,090 | 1,021 | 105 | 1,126 |
| **Engineering** | 971 | 281 | 1,252 | 978 | 279 | 1,257 | 950 | 293 | 1,243 | 885 | 279 | 1,164 | 820 | 256 | 1,076 |
| **Health Sciences** | 478 | 111 | 589 | 474 | 104 | 578 | 506 | 108 | 614 | 591 | 111 | 702 | 640 | 120 | 760 |
| Mathematics | 405 | 138 | 543 | 437 | 110 | 547 | 422 | 106 | 528 | 391 | 94 | 485 | 398 | 67 | 465 |
| Chemistry | 581 | 78 | 659 | 586 | 58 | 644 | 582 | 62 | 644 | 564 | 61 | 625 | 584 | 69 | 653 |
| Geology | 217 | 51 | 268 | 207 | 53 | 260 | 191 | 61 | 252 | 182 | 52 | 234 | 202 | 61 | 263 |
| Physics | 428 | 61 | 489 | 425 | 67 | 492 | 411 | 64 | 475 | 392 | 84 | 476 | 392 | 75 | 467 |
| Other Mathematics and Physical Science | 107 | 26 | 133 | 88 | 4 | 92 | 64 | 6 | 70 | 57 | 7 | 64 | 89 | 33 | 122 |
| **Sub-total Mathematics and Physical Sciences** | 1,738 | 354 | 2,092 | 1,743 | 292 | 2,035 | 1,670 | 299 | 1,969 | 1,586 | 298 | 1,884 | 1,665 | 305 | 1,970 |
| **Not Specified** | 18 | 19 | 37 | 35 | 10 | 45 | 50 | 16 | 66 | 44 | 19 | 63 | 46 | 10 | 56 |
| **Grand Total** | 9,349 | 3,833 | 13,182 | 9,713 | 3,547 | 13,260 | 9,681 | 3,490 | 13,171 | 9,543 | 3,370 | 12,913 | 9,727 | 3,301 | 13,028 |

* Estimated

** Possible classification error

# Table A-3

Full-and Part-time Doctoral Enrolment by Field of Study and Selected Disciplines, 1970-71 to 1979-80

| | 1970-71 | | | 1971-72 | | | 1972-73 | | | 1973-74 | | | 1974-75 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total |
| Education | 46.4 | 33.6 | 100.0 | 62.6 | 37.4 | 100.0 | 60.4 | 39.6 | 100.0 | 55.7 | 44.3 | 100.0 | 53.4 | 46.6 | 100.0 |
| Fine and Applied Arts | 62.5 | 37.5 | 100.0 | 69.6 | 30.4 | 100.0 | 65.8 | 34.2 | 100.0 | 62.6 | 37.4 | 100.0 | 62.8 | 37.2 | 100.0 |
| Classics | 67.7 | 32.3 | 100.0 | 68.1 | 31.9 | 100.0 | 68.2* | 31.8* | 100.0* | 67.1* | 32.9* | 100.0* | 65.8 | 34.2 | 100.0 |
| English | 79.0 | 21.0 | 100.0 | 79.6 | 20.3 | 100.0 | 73.4 | 26.6 | 100.0 | 71.4 | 28.6 | 100.0 | 70.4 | 29.6 | 100.0 |
| French | 60.1 | 39.9 | 100.0 | 53.2 | 46.8 | 100.0 | 55.8 | 44.2 | 100.0 | 45.6 | 54.4 | 100.0 | 56.6 | 43.4 | 100.0 |
| Other Languages and Literature | 76.1 | 23.9 | 100.0 | 74.0 | 26.0 | 100.0 | 64.8 | 35.2 | 100.0 | 66.1 | 33.9 | 100.0 | 69.4 | 30.6 | 100.0 |
| History | 69.5 | 30.5 | 100.0 | 66.4 | 33.6 | 100.0 | 63.9 | 36.1 | 100.0 | 61.8 | 38.2 | 100.0 | 70.6 | 29.4 | 100.0 |
| Philosophy | 61.3 | 38.7 | 100.0 | 62.2 | 37.8 | 100.0 | 64.9 | 35.1 | 100.0 | 60.8 | 39.2 | 100.0 | 65.4 | 34.6 | 100.0 |
| Religious Studies | 70.4 | 29.6 | 100.0 | 57.7 | 42.3 | 100.0 | 55.7 | 44.3 | 100.0 | 52.0 | 48.0 | 100.0 | 52.0 | 48.0 | 100.0 |
| Other Humanities | 72.6 | 27.4 | 100.0 | 61.4 | 38.6 | 100.0 | 72.6 | 27.4 | 100.0 | 84.9 | 15.1 | 100.0 | 79.4 | 20.6 | 100.0 |
| Sub-total Humanities | 70.1 | 29.9 | 100.0 | 67.0 | 33.0 | 100.0 | 65.3 | 34.7 | 100.0 | 62.7 | 37.3 | 100.0 | 66.6 | 33.4 | 100.0 |
| Anthropology (incl. Archaeology) | 76.3 | 23.7 | 100.0 | 72.5 | 27.5 | 100.0 | 69.7 | 30.3 | 100.0 | 64.7 | 35.3 | 100.0 | 75.5 | 24.5 | 100.0 |
| Management and Admin. Studies | 95.3 | 4.7 | 100.0 | 87.1 | 12.9 | 100.0 | 88.5 | 11.5 | 100.0 | 73.8 | 26.2 | 100.0 | 69.1 | 30.9 | 100.0 |
| Economics | 82.0 | 18.0 | 100.0 | 77.5 | 22.5 | 100.0 | 69.8 | 30.2 | 100.0 | 74.7 | 25.3 | 100.0 | 71.6 | 28.4 | 100.0 |
| Geography | 84.1 | 15.9 | 100.0 | 76.9 | 23.1 | 100.0 | 70.4 | 29.6 | 100.0 | 66.3 | 33.7 | 100.0 | 65.1 | 34.9 | 100.0 |
| Law | 28.8 | 71.2 | 100.0 | 29.7 | 70.3 | 100.0 | 41.3 | 58.7 | 100.0 | 35.0 | 65.0 | 100.0 | 52.5 | 47.5 | 100.0 |
| Political Science | 75.8 | 24.2 | 100.0 | 69.8 | 30.2 | 100.0 | 76.9 | 23.1 | 100.0 | 77.9 | 22.1 | 100.0 | 72.1 | 27.9 | 100.0 |
| Psychology | 72.7 | 27.3 | 100.0 | 68.8 | 31.2 | 100.0 | 63.1 | 36.9 | 100.0 | 61.7 | 38.3 | 100.0 | 63.3 | 36.7 | 100.0 |
| Social Work | 67.9 | 32.1 | 100.0 | 70.6 | 29.4 | 100.0 | 63.9 | 36.1 | 100.0 | 70.3 | 29.7 | 100.0 | 55.0 | 45.0 | 100.0 |
| Sociology | 73.0 | 27.0 | 100.0 | 70.4 | 29.6 | 100.0 | 65.9 | 34.1 | 100.0 | 64.0 | 36.0 | 100.0 | 67.2 | 32.8 | 100.0 |
| Other Social Sciences | 62.7 | 37.3 | 100.0 | 60.4 | 39.6 | 100.0 | 64.6 | 35.4 | 100.0 | 64.4 | 35.6 | 100.0 | 66.8 | 33.2 | 100.0 |
| Sub-total Social Sciences | 73.9 | 26.1 | 100.0 | 70.3 | 29.7 | 100.0 | 67.6 | 32.4 | 100.0 | 66.3 | 33.7 | 100.0 | 67.0 | 33.0 | 100.0 |
| Agriculture | 90.3 | 9.7 | 100.0 | 88.3 | 11.7 | 100.0 | 85.5 | 14.5 | 100.0 | 80.8 | 19.2 | 100.0 | 84.7 | 15.3 | 100.0 |
| Biology, Botany and Zoology | 87.0 | 13.0 | 100.0 | 87.2 | 12.8 | 100.0 | 84.3 | 15.7 | 100.0 | 81.9 | 18.1 | 100.0 | 84.0 | 16.0 | 100.0 |
| Other | 89.0 | 11.0 | 100.0 | 90.1 | 9.9 | 100.0 | 86.6 | 13.4 | 100.0 | 86.2 | 13.8 | 100.0 | 86.1 | 13.9 | 100.0 |
| Sub-total Agriculture and Biological Sciences | 88.0 | 12.0 | 100.0 | 87.8 | 12.2 | 100.0 | 84.9 | 15.1 | 100.0 | 82.4 | 17.6 | 100.0 | 84.4 | 15.6 | 100.0 |
| Engineering | 85.5 | 14.5 | 100.0 | 81.7 | 18.3 | 100.0 | 81.8 | 18.2 | 100.0 | 78.4 | 21.6 | 100.0 | 77.2 | 22.8 | 100.0 |
| Health Sciences | 92.0 | 8.0 | 100.0 | 85.9 | 14.1 | 100.0 | 81.6 | 18.4 | 100.0 | 80.2 | 19.8 | 100.0 | 78.0 | 22.0 | 100.0 |
| Mathematics | 87.1 | 12.9 | 100.0 | 82.7 | 17.3 | 100.0 | 79.8 | 20.2 | 100.0 | 78.8 | 21.2 | 100.0 | 76.6 | 23.4 | 100.0 |
| Chemistry | 94.0 | 6.0 | 100.0 | 93.9 | 6.1 | 100.0 | 90.2 | 9.8 | 100.0 | 88.3 | 11.7 | 100.0 | 86.7 | 13.3 | 100.0 |
| Geology | 90.6 | 9.4 | 100.0 | 84.6 | 15.4 | 100.0 | 83.5 | 16.5 | 100.0 | 85.5 | 14.5 | 100.0 | 82.6 | 17.4 | 100.0 |
| Physics | 94.2 | 5.8 | 100.0 | 89.7 | 10.3 | 100.0 | 90.7 | 9.3 | 100.0 | 89.2 | 10.8 | 100.0 | 86.5 | 13.5 | 100.0 |
| Other Mathematics and Physical Sciences | 89.4 | 10.6 | 100.0 | 93.4 | 6.6 | 100.0 | 76.9 | 23.1 | 100.0 | 75.0 | 25.0 | 100.0 | 84.6 | 15.3 | 100.0 |
| Sub-total Mathematics and Physical Sciences | 91.9 | 8.1 | 100.0 | 89.1 | 10.9 | 100.0 | 86.2 | 13.8 | 100.0 | 84.8 | 15.2 | 100.0 | 83.4 | 16.6 | 100.0 |
| Not Specified | 91.1 | 8.9 | 100.0 | 100.0 | 0.0 | 100.0 | 85.5 | 14.5 | 100.0 | 77.0 | 23.0 | 100.0 | 87.0 | 13.0 | 100.0 |
| Total | 80.3 | 19.7 | 100.0 | 76.7 | 23.3 | 100.0 | 73.8 | 26.2 | 100.0 | 70.9 | 29.1 | 100.0 | 71.4 | 28.6 | 100.0 |

Estimated *

# Table A-3
# (cont'd)

Full-and Part-time Doctoral Enrolment by Field of Study and Selected Disciplines, 1970-71 to 1979-80

| | 1975-76 | | | 1976-77 | | | 1977-78 | | | 1978-79 | | | 1979-80 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total |
| **Education** | 53.6 | 46.4 | 100.0 | 52.0 | 48.0 | 100.0 | 56.3 | 43.7 | 100.0 | 57.2 | 42.8 | 100.0 | 57.6 | 42.4 | 100.0 |
| **Fine and Applied Arts** | 65.3 | 34.7 | 100.0 | 69.9 | 30.1 | 100.0 | 74.5 | 25.5 | 100.0 | 74.1 | 25.9 | 100.0 | 68.8 | 31.2 | 100.0 |
| Classics | 64.5 | 35.5 | 100.0 | 84.3 | 15.7 | 100.0 | 80.0 | 20.0 | 100.0 | 77.1 | 22.9 | 100.0 | 76.9 | 23.1 | 100.0 |
| English | 72.7 | 27.3 | 100.0 | 75.3 | 24.7 | 100.0 | 73.5 | 26.5 | 100.0 | 73.6 | 26.4 | 100.0 | 76.0 | 24.0 | 100.0 |
| French | 55.9 | 44.1 | 100.0 | 62.1 | 37.9 | 100.0 | 61.4 | 38.6 | 100.0 | 63.2 | 36.8 | 100.0 | 63.3 | 36.7 | 100.0 |
| Other Languages and Literature | 67.5 | 32.5 | 100.0 | 71.4 | 28.6 | 100.0 | 69.2 | 30.8 | 100.0 | 71.4 | 28.6 | 100.0 | 77.1 | 22.9 | 100.0 |
| History | 66.6 | 33.4 | 100.0 | 70.6 | 29.4 | 100.0 | 70.4 | 29.6 | 100.0 | 70.0 | 30.0 | 100.0 | 73.5 | 26.5 | 100.0 |
| Philosophy | 68.2 | 31.8 | 100.0 | 70.9 | 29.1 | 100.0 | 71.5 | 28.5 | 100.0 | 70.5 | 29.5 | 100.0 | 68.6 | 31.4 | 100.0 |
| Religious Studies | 47.0 | 53.0 | 100.0 | 57.9 | 42.1 | 100.0 | 67.5 | 32.5 | 100.0 | 63.7 | 36.3 | 100.0 | 64.9 | 35.1 | 100.0 |
| Other Humanities | 78.8 | 21.2 | 100.0 | 69.7 | 30.3 | 100.0 | 72.4 | 27.6 | 100.0 | 74.2 | 25.8 | 100.0 | 69.8 | 30.2 | 100.0 |
| **Sub-total Humanities** | 66.5 | 33.5 | 100.0 | 70.1 | 29.9 | 100.0 | 70.3 | 29.7 | 100.0 | 70.2 | 29.8 | 100.0 | 71.7 | 28.3 | 100.0 |
| Anthropology (incl. Archaeology) | 72.4 | 27.6 | 100.0 | 79.3 | 20.7 | 100.0 | 76.3 | 23.7 | 100.0 | 76.3 | 23.7 | 100.0 | 75.8 | 24.2 | 100.0 |
| Management and Admin. Studies | 73.5 | 26.5 | 100.0 | 78.5 | 21.5 | 100.0 | 74.0 | 26.0 | 100.0 | 80.0 | 20.0 | 100.0 | 77.5 | 22.5 | 100.0 |
| Economics | 72.2 | 27.8 | 100.0 | 78.6 | 21.4 | 100.0 | 74.7 | 25.3 | 100.0 | 76.5 | 23.5 | 100.0 | 78.4 | 21.6 | 100.0 |
| Geography | 70.1 | 29.9 | 100.0 | 71.3 | 28.7 | 100.0 | 74.0 | 26.0 | 100.0 | 70.4 | 29.6 | 100.0 | 77.0 | 23.0 | 100.0 |
| Law | 52.2 | 47.8 | 100.0 | 56.8 | 43.2 | 100.0 | 58.9 | 41.1 | 100.0 | 69.6 | 30.4 | 100.0 | 64.2 | 35.8 | 100.0 |
| Political Science | 70.6 | 29.4 | 100.0 | 68.0 | 32.0 | 100.0 | 71.0 | 29.0 | 100.0 | 69.5 | 30.5 | 100.0 | 71.2 | 28.8 | 100.0 |
| Psychology | 62.0 | 38.0 | 100.0 | 64.6 | 35.4 | 100.0 | 65.3 | 34.7 | 100.0 | 66.3 | 33.7 | 100.0 | 65.9 | 34.1 | 100.0 |
| Social Work | 59.1 | 40.9 | 100.0 | 42.6 | 57.4 | 100.0 | 53.3 | 46.7 | 100.0 | 60.9 | 39.1 | 100.0 | 66.7 | 33.3 | 100.0 |
| Sociology | 64.3 | 35.7 | 100.0 | 69.6 | 30.4 | 100.0 | 64.9 | 35.1 | 100.0 | 68.4 | 31.6 | 100.0 | 68.5 | 31.5 | 100.0 |
| Other Social Sciences | 71.1 | 28.9 | 100.0 | 75.1 | 24.9 | 100.0 | 78.2 | 21.8 | 100.0 | 81.6 | 18.4 | 100.0 | 78.2 | 21.8 | 100.0 |
| **Sub-total Social Sciences** | 66.8 | 33.2 | 100.0 | 70.1 | 29.9 | 100.0 | 69.7 | 30.3 | 100.0 | 71.4 | 28.6 | 100.0 | 71.5 | 28.5 | 100.0 |
| Agriculture | 82.2 | 17.8 | 100.0 | 84.2 | 15.8 | 100.0 | 87.4 | 12.6 | 100.0 | 83.3 | 16.7 | 100.00 | 86.7 | 13.3 | 100.0 |
| Biology, Botany and Zoology | 83.0 | 17.0 | 100.0 | 87.1 | 12.9 | 100.0 | 86.9 | 13.1 | 100.0 | 87.2 | 12.8 | 100.0 | 91.1 | 8.9 | 100.0 |
| Other | 84.1 | 15.9 | 100.0 | 90.2 | 9.8 | 100.0 | 88.6 | 11.4 | 100.0 | 95.0 | 5.0 | 100.0 | 94.7 | 5.3 | 100.0 |
| **Sub-total Agriculture and Biological Sciences** | 83.0 | 17.0 | 100.0 | 87.0 | 13.0 | 100.0 | 87.3 | 12.7 | 100.0 | 87.3 | 12.7 | 100.0 | 90.7 | 9.3 | 100.0 |
| **Engineering** | 77.6 | 22.4 | 100.0 | 77.8 | 22.2 | 100.0 | 76.4 | 23.6 | 100.0 | 76.0 | 24.0 | 100.0 | 76.2 | 23.8 | 100.0 |
| **Health Sciences** | 81.2 | 18.8 | 100.0 | 82.0 | 18.0 | 100.0 | 82.4 | 17.6 | 100.0 | 84.2 | 15.8 | 100.0 | 84.0 | 15.8 | 100.0 |
| Mathematics | 74.6 | 25.4 | 100.0 | 79.9 | 20.1 | 100.0 | 79.9 | 20.1 | 100.0 | 80.6 | 19.4 | 100.0 | 85.6 | 14.4 | 100.0 |
| Chemistry | 88.2 | 11.8 | 100.0 | 91.0 | 9.0 | 100.0 | 90.4 | 9.6 | 100.0 | 90.2 | 9.8 | 100.0 | 89.4 | 10.6 | 100.0 |
| Geology | 81.0 | 19.0 | 100.0 | 79.6 | 20.4 | 100.0 | 75.8 | 24.2 | 100.0 | 77.8 | 22.2 | 100.0 | 76.8 | 23.2 | 100.0 |
| Physics | 87.5 | 12.5 | 100.0 | 86.4 | 13.6 | 100.0 | 86.5 | 13.5 | 100.0 | 82.4 | 17.6 | 100.0 | 83.9 | 16.1 | 100.0 |
| Other Mathematics and Physical Sciences | 80.4 | 19.6 | 100.0 | 95.6 | 4.4 | 100.0 | 91.4 | 8.6 | 100.0 | 89.1 | 10.9 | 100.0 | 73.0 | 27.0 | 100.0 |
| **Sub-total Mathematics and Physical Sciences** | 83.1 | 16.9 | 100.0 | 85.6 | 14.4 | 100.0 | 84.8 | 15.2 | 100.0 | 84.2 | 15.8 | 100.0 | 84.5 | 15.5 | 100.0 |
| **Not Specified** | 48.6 | 51.4 | 100.0 | 77.8 | 22.2 | 100.0 | 75.8 | 24.2 | 100.0 | 69.8 | 30.2 | 100.0 | 82.1 | 17.9 | 100.0 |
| **Total** | 70.9 | 29.1 | 100.0 | 73.2 | 26.8 | 100.0 | 73.5 | 26.5 | 100.0 | 73.9 | 26.1 | 100.0 | 74.7 | 25.3 | 100.0 |

Estimated *

Table A-4

Full-time Doctoral Enrolment by Selected Disciplines and by Sex, 1970-71 to 1979-80

| Selected Disciplines | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 | 1975-76 | 1976-77 | 1977-78 | 1978-79 | 1979-80 | 10 Year Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| English | Male | 59.6 | 58.5 | 56.4 | 54.8 | 52.4 | 52.7 | 50.7 | 50.5 | 51.0 | 50.7 | 53.8 |
| | Female | 40.1 | 41.5 | 43.6 | 45.2 | 47.6 | 47.3 | 49.3 | 49.5 | 49.0 | 49.3 | 46.2 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| French | Male | 49.5 | 49.5 | 50.9 | 54.0 | 47.4 | 53.5 | 54.0 | 50.5 | 47.5 | 49.5 | 50.6 |
| | Female | 50.5 | 50.5 | 49.1 | 46.0 | 52.6 | 46.5 | 46.0 | 49.5 | 52.5 | 50.5 | 49.4 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Philosophy | Male | 84.9 | 82.2 | 82.0 | 79.7 | 79.2 | 82.2 | 80.1 | 79.0 | 77.9 | 75.7 | 80.2 |
| | Female | 15.1 | 17.8 | 18.0 | 20.3 | 20.1 | 17.5 | 19.9 | 21.0 | 22.1 | 24.3 | 19.8 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Management & Admin. Studies | Male | 100.0 | 100.0 | 100.0 | 97.4 | 96.0 | 92.8 | 88.4 | 88.9 | 83.3 | 83.9 | 91.5 |
| | Female | - | - | - | 2.6 | 4.0 | 7.2 | 11.6 | 11.1 | 16.7 | 16.1 | 8.5 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Economics | Male | 90.6 | 90.5 | 93.2 | 87.1 | 85.6 | 82.4 | 85.1 | 84.2 | 83.8 | 84.5 | 86.2 |
| | Female | 9.4 | 9.5 | 6.8 | 11.7 | 12.6 | 14.0 | 14.9 | 15.8 | 16.2 | 15.5 | 13.8 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Psychology | Male | 69.9 | 67.1 | 67.2 | 67.4 | 65.4 | 62.8 | 61.7 | 60.7 | 57.5 | 53.1 | 62.9 |
| | Female | 30.1 | 32.9 | 32.8 | 32.6 | 34.6 | 36.5 | 38.3 | 39.3 | 42.5 | 46.9 | 37.1 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Social Work | Male | 63.2 | 75.0 | 65.2 | 69.2 | 68.2 | 65.4 | 69.2 | 54.2 | 50.0 | 52.8 | 62.6 |
| | Female | 36.8 | 25.0 | 34.8 | 30.8 | 31.8 | 34.6 | 30.8 | 45.8 | 50.0 | 47.2 | 37.4 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sociology | Male | 72.0 | 71.9 | 67.7 | 68.8 | 68.4 | 67.4 | 68.1 | 63.4 | 67.0 | 58.2 | 67.0 |
| | Female | 28.0 | 28.1 | 32.3 | 31.2 | 31.6 | 32.6 | 31.9 | 36.6 | 33.0 | 41.8 | 33.0 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Agriculture | Male | 91.4 | 92.5 | 90.6 | 90.8 | 90.6 | 89.4 | 88.6 | 86.0 | 83.3 | 79.4 | 88.2 |
| | Female | 8.6 | 7.5 | 9.4 | 9.2 | 9.4 | 10.6 | 11.4 | 14.0 | 16.7 | 20.6 | 11.8 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Chemistry | Male | 93.2 | 91.6 | 90.2 | 87.7 | 86.2 | 85.7 | 86.0 | 86.1 | 86.4 | 84.8 | 88.3 |
| | Female | 6.8 | 8.4 | 9.4 | 11.3 | 13.0 | 13.6 | 14.0 | 13.9 | 13.6 | 15.2 | 11.7 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Physics | Male | 96.5 | 96.3 | 95.8 | 94.3 | 96.3 | 93.2 | 92.2 | 91.7 | 91.1 | 92.4 | 94.3 |
| | Female | 3.5 | 3.7 | 4.2 | 5.7 | 3.7 | 6.8 | 7.8 | 8.3 | 8.9 | 7.6 | 5.7 |
| | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Note: When male and female do not equal total, the difference is due to non-reporting of sex.

Table A-5

Index of Full- and Part-time Doctoral Enrolment by Region, 1970-71 to 1979-80

| | Atlantic Provinces | | | Quebec | | | Ontario | | | Western Provinces | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total | F.T. | P.T. | Total |
| 1970-71 | 100 | 100 | 100 (3.3) | 100 | 100 | 100 (21.6) | 100 | 100 | 100 (49.7) | 100 | 100 | 100 (25.4) | 100 | 100 | 100 (100.0) |
| 1971-72 | 90 | 62 | 87 (2.8) | 92 | 115 | 100 (21.0) | 101 | 134 | 106 (51.2) | 99 | 114 | 101 (25.0) | 98 | 122 | 103 (100.0) |
| 1972-73 | 94 | 121 | 97 (3.0) | 106 | 127 | 113 (23.0) | 96 | 166 | 108 (50.5) | 96 | 116 | 98 (23.6) | 98 | 142 | 106 (100.0) |
| 1973-74 | 90 | 149 | 95 (3.0) | 95 | 154 | 115 (23.8) | 94 | 166 | 107 (50.8) | 86 | 127 | 92 (22.4) | 92 | 154 | 104 (100.0) |
| 1974-75 | 90 | 149 | 96 (3.0) | 108 | 117 | 111 (23.1) | 94 | 182 | 109 (52.1) | 80 | 146 | 89 (21.8) | 92 | 151 | 104 (100.0) |
| 1975-76 | 90 | 185 | 99 (3.1) | 108 | 130 | 115 (23.9) | 95 | 175 | 109 (51.7) | 78 | 152 | 88 (21.3) | 92 | 154 | 104 (100.0) |
| 1976-77 | 91 | 238 | 105 (3.3) | 109 | 122 | 113 (23.3) | 98 | 162 | 109 (51.6) | 84 | 132 | 90 (21.8) | 96 | 143 | 105 (100.0) |
| 1977-78 | 93 | 226 | 105 (3.3) | 115 | 120 | 116 (24.1) | 97 | 158 | 108 (51.2) | 81 | 134 | 88 (21.4) | 95 | 141 | 104 (100.0) |
| 1978-79 | 90 | 251 | 106 (3.4) | 118 | 117 | 118 (24.8) | 94 | 149 | 104 (50.4) | 78 | 134 | 86 (21.4) | 94 | 136 | 102 (100.0) |
| 1979-80 | 97 | 226 | 109 (3.5) | 122 | 125 | 123 (25.7) | 94 | 143 | 102 (49.1) | 84 | 117 | 88 (21.7) | 96 | 133 | 103 (100.0) |
| 10 Year Total | | | (3.2) | | | (23.4) | | | (50.8) | | | (22.6) | | | (100.0) |

Note: Percentage in brackets indicates regional distribution.

## Table A-6

### Legal Status of Full-time Doctoral Enrolment by Province and by University, 1977-78

| Institution | Canadian Citizens | | Permanent Residents | | Foreign Students | | Sub-total | | Not Reported | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % | No. | No. |
| Memorial | 20 | 39.2 | 11 | 21.6 | 20 | 39.2 | 51 | 100.0 | – | 51 |
| Dalhousie | 100 | 49.5 | 25 | 12.4 | 77 | 38.1 | 202 | 100.0 | – | 202 |
| New Brunswick | 43 | 47.2 | 13 | 14.3 | 35 | 38.5 | 91 | 100.0 | – | 91 |
| McGill | 564 | 52.9 | 285 | 26.7 | 218 | 20.4 | 1,067 | 100.0 | 2 | 1,069 |
| Montreal | 342 | 77.2 | 60 | 13.5 | 41 | 9.3 | 443 | 100.0 | – | 443 |
| Laval | 253 | 77.1 | 30 | 9.2 | 45 | 13.7 | 328 | 100.0 | – | 328 |
| Sherbrooke | 70 | 69.3 | 11 | 10.9 | 20 | 19.8 | 101 | 100.0 | – | 101 |
| Concordia | 41 | 49.4 | 27 | 32.5 | 15 | 18.1 | 83 | 100.0 | 1 | 84 |
| Sub-total Quebec | 1,270 | 62.8 | 413 | 20.4 | 339 | 16.8 | 2,022 | 100.0 | 3 | 2,025 |
| Carleton | 106 | 53.3 | 36 | 18.1 | 57 | 28.6 | 199 | 100.0 | – | 199 |
| Guelph | 61 | 44.5 | 23 | 16.8 | 53 | 38.7 | 137 | 100.0 | – | 137 |
| McMaster | 232 | 49.3 | 109 | 23.1 | 130 | 27.6 | 471 | 100.0 | 1 | 472 |
| Ottawa | 108 | 46.4 | 63 | 27.0 | 62 | 26.6 | 233 | 100.0 | – | 233 |
| Queen's | 224 | 68.9 | 33 | 10.2 | 68 | 20.9 | 325 | 100.0 | – | 325 |
| Toronto | 1,293 | 57.4 | 468 | 20.8 | 491 | 21.8 | 2,252 | 100.0 | 1 | 2,253 |
| Waterloo | 248 | 53.6 | 89 | 19.2 | 126 | 27.2 | 463 | 100.0 | – | 463 |
| Western | 258 | 58.8 | 69 | 15.7 | 112 | 25.5 | 439 | 100.0 | – | 439 |
| Windsor | 62 | 44.6 | 27 | 19.4 | 50 | 36.0 | 139 | 100.0 | – | 139 |
| York | 245 | 66.9 | 66 | 18.0 | 55 | 15.0 | 366 | 100.0 | – | 366 |
| Regis | 2 | 40.0 | – | 0.0 | 3 | 60.0 | 5 | 100.0 | – | 5 |
| Sub-total Ontario | 2,840 | 56.5 | 983 | 19.5 | 1,207 | 24.0 | 5,030 | 100.0 | 2 | 5,032 |
| Manitoba | 175 | 54.9 | 68 | 21.3 | 76 | 23.8 | 319 | 100.0 | – | 319 |
| Saskatchewan | 54 | 41.9 | 32 | 24.8 | 43 | 33.3 | 129 | 100.0 | – | 129 |
| Regina | 15 | 75.0 | 2 | 10.0 | 3 | 15.0 | 20 | 100.0 | – | 20 |
| Sub-total Saskatchewan | 69 | 46.3 | 34 | 22.8 | 46 | 30.9 | 149 | 100.0 | – | 149 |
| Alberta | 359 | 56.0 | 119 | 18.6 | 163 | 25.4 | 641 | 100.0 | – | 641 |
| Calgary | 97 | 40.8 | 63 | 26.5 | 78 | 32.8 | 238 | 100.0 | – | 238 |
| Sub-total Alberta | 456 | 51.9 | 182 | 20.7 | 241 | 27.4 | 879 | 100.0 | – | 879 |
| British Columbia | 347 | 49.1 | 157 | 22.2 | 203 | 28.7 | 707 | 100.0 | – | 707 |
| Victoria | 29 | 58.0 | 10 | 20.0 | 11 | 22.0 | 50 | 100.0 | – | 50 |
| Sub-total British Columbia | 376 | 49.7 | 167 | 22.1 | 214 | 28.3 | 757 | 100.0 | – | 757 |
| Total Canada | 5,349 | 56.3 | 1,896 | 20.0 | 2,255 | 23.7 | 9,500 | 100.0 | 5 | 9,505 |

## Table A-7

### Legal Status of Part-time Doctoral Enrolment by Province and by University, 1977-78

| Institution | Canadian Citizens | | Permanent Residents | | Foreign Students | | Sub-total | | Not Reported | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % | No. | No. |
| Memorial | 8 | 66.7 | 4 | 33.3 | – | 0.0 | 12 | 100.0 | – | 12 |
| Dalhousie | 17 | 77.3 | 3 | 13.6 | 2 | 9.1 | 22 | 100.0 | – | 22 |
| New Brunswick | 18 | 50.0 | 12 | 33.3 | 6 | 16.7 | 36 | 100.0 | – | 36 |
| McGill | 24 | 66.7 | 9 | 25.0 | 3 | 8.3 | 36 | 100.0 | – | 36 |
| Montreal | 424 | 74.9 | 87 | 15.4 | 55 | 9.7 | 566 | 100.0 | 220 | 786 |
| Laval | 171 | 79.5 | 16 | 7.4 | 28 | 13.0 | 215 | 100.0 | – | 215 |
| Concordia | 48 | 69.6 | 18 | 26.1 | 3 | 4.4 | 69 | 100.0 | – | 69 |
| Sub-total Quebec | 667 | 75.3 | 130 | 14.7 | 89 | 10.0 | 886 | 100.0 | 220 | 1,106 |
| Carleton | 61 | 83.6 | 10 | 13.7 | 2 | 2.7 | 73 | 100.0 | – | 73 |
| Guelph | 19 | 95.0 | 1 | 5.0 | – | 0.0 | 20 | 100.0 | – | 20 |
| McMaster | 51 | 61.5 | 26 | 31.3 | 6 | 7.2 | 83 | 100.0 | – | 83 |
| Ottawa | 208 | 78.8 | 37 | 14.0 | 19 | 7.2 | 264 | 100.0 | – | 264 |
| Queen's | 90 | 79.7 | 19 | 16.8 | 4 | 3.5 | 113 | 100.0 | – | 113 |
| Toronto | 504 | 76.5 | 105 | 15.9 | 50 | 7.6 | 659 | 100.0 | 1 | 660 |
| Waterloo | 91 | 72.8 | 23 | 18.4 | 11 | 8.8 | 125 | 100.0 | – | 125 |
| Western | 130 | 79.8 | 25 | 15.3 | 8 | 4.9 | 163 | 100.0 | – | 163 |
| Windsor | 21 | 61.8 | 8 | 23.5 | 5 | 14.7 | 34 | 100.0 | – | 34 |
| York | 117 | 69.6 | 34 | 20.2 | 17 | 10.1 | 168 | 100.0 | – | 168 |
| Regis | – | 0.0 | – | 0.0 | – | 0.0 | – | 0.0 | 1 | 1 |
| Sub-total Ontario | 1,295 | 76.0 | 288 | 16.9 | 122 | 7.2 | 1,705 | 100.0 | 2 | 1,707 |
| Manitoba | 93 | 77.5 | 23 | 19.2 | 4 | 3.3 | 120 | 100.0 | – | 120 |
| Saskatchewan | 24 | 63.2 | 9 | 23.7 | 5 | 13.2 | 38 | 100.0 | – | 38 |
| Regina | 3 | 27.3 | 8 | 72.7 | – | 0.0 | 11 | 100.0 | – | 11 |
| Sub-total Saskatchewan | 27 | 55.1 | 17 | 34.7 | 5 | 10.2 | 49 | 100.0 | – | 49 |
| Alberta | 136 | 78.6 | 32 | 18.5 | 5 | 2.9 | 173 | 100.0 | 1 | 174 |
| Calgary | 23 | 74.2 | 5 | 16.1 | 3 | 9.7 | 31 | 100.0 | – | 31 |
| Sub-total Alberta | 159 | 77.9 | 37 | 18.1 | 8 | 3.9 | 204 | 100.0 | 1 | 205 |
| British Columbia | 92 | 62.6 | 35 | 23.8 | 20 | 13.6 | 147 | 100.0 | – | 147 |
| Victoria | 5 | 55.6 | 4 | 44.4 | – | 0.0 | 9 | 100.0 | – | 9 |
| Sub-total British Columbia | 97 | 62.2 | 39 | 25.0 | 20 | 12.8 | 156 | 100.0 | — | 156 |
| Total Canada | 2,381 | 74.6 | 553 | 17.3 | 256 | 8.0 | 3,190 | 100.0 | 223 | 3,413 |

## Table A-8

### Legal Status of Full-time Doctoral Enrolment by Province and by University, 1978-79

| Institution | Canadian Citizens | | Permanent Residents | | Foreign Students | | Sub-total | | Not Reported | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % | No. | No. |
| Memorial | 17 | 34.7 | 9 | 18.4 | 23 | 46.9 | 49 | 100.0 | – | 49 |
| Dalhousie | 95 | 47.0 | 23 | 11.4 | 84 | 41.6 | 202 | 100.0 | – | 202 |
| New Brunswick | 38 | 48.7 | 11 | 14.1 | 29 | 37.2 | 78 | 100.0 | – | 78 |
| McGill | 617 | 58.5 | 209 | 19.8 | 229 | 21.7 | 1,055 | 100.0 | – | 1,055 |
| Montreal | 367 | 79.4 | 46 | 10.0 | 49 | 10.6 | 462 | 100.0 | 1 | 463 |
| Laval | 266 | 80.6 | 26 | 7.9 | 38 | 11.5 | 330 | 100.0 | – | 330 |
| Sherbrooke | 77 | 70.0 | 13 | 11.8 | 20 | 18.2 | 110 | 100.0 | – | 110 |
| Concordia | 55 | 62.5 | 16 | 18.2 | 17 | 19.3 | 88 | 100.0 | 1 | 89 |
| Sub-total Quebec | 1,382 | 67.6 | 310 | 15.2 | 353 | 17.3 | 2,045 | 100.0 | 2 | 2,047 |
| Carleton | 111 | 53.6 | 22 | 10.6 | 74 | 35.8 | 207 | 100.0 | – | 207 |
| Guelph | 91 | 58.0 | 18 | 11.5 | 48 | 30.5 | 157 | 100.0 | – | 157 |
| McMaster | 250 | 57.0 | 65 | 14.8 | 124 | 28.2 | 439 | 100.0 | – | 439 |
| Ottawa | 122 | 58.9 | 35 | 16.9 | 50 | 24.2 | 207 | 100.0 | – | 207 |
| Queen's | 204 | 68.7 | 24 | 8.1 | 69 | 23.2 | 297 | 100.0 | 1 | 298 |
| Toronto | 1,374 | 61.2 | 377 | 16.8 | 494 | 22.0 | 2,245 | 100.0 | – | 2,245 |
| Waterloo | 244 | 57.0 | 60 | 14.0 | 124 | 29.0 | 428 | 100.0 | – | 428 |
| Western | 254 | 62.2 | 52 | 12.8 | 102 | 25.0 | 408 | 100.0 | – | 408 |
| Windsor | 58 | 43.6 | 24 | 18.0 | 51 | 38.4 | 133 | 100.0 | – | 133 |
| York | 267 | 70.1 | 58 | 15.2 | 56 | 14.7 | 381 | 100.0 | – | 381 |
| Sub-total Ontario | 2,976 | 60.7 | 735 | 15.0 | 1,192 | 24.3 | 4,903 | 100.0 | 1 | 4,904 |
| Manitoba | 199 | 60.1 | 48 | 14.5 | 84 | 25.4 | 331 | 100.0 | – | 331 |
| Saskatchewan | 56 | 47.1 | 16 | 13.4 | 47 | 39.5 | 119 | 100.0 | – | 119 |
| Regina | 11 | 73.3 | 2 | 13.3 | 2 | 13.3 | 15 | 100.0 | – | 15 |
| Sub-total Saskatchewan | 67 | 50.0 | 18 | 13.4 | 49 | 36.6 | 134 | 100.0 | – | 134 |
| Alberta | 379 | 58.6 | 96 | 14.8 | 172 | 26.6 | 647 | 100.0 | – | 647 |
| Calgary | 90 | 38.8 | 50 | 21.6 | 92 | 39.7 | 232 | 100.0 | – | 232 |
| Sub-total Alberta | 469 | 53.4 | 146 | 16.6 | 264 | 30.0 | 879 | 100.0 | – | 879 |
| British Columbia | 339 | 52.9 | 89 | 13.9 | 213 | 33.2 | 641 | 100.0 | – | 641 |
| Victoria | 29 | 59.2 | 4 | 8.2 | 16 | 32.7 | 49 | 100.0 | – | 49 |
| Sub-total British Columbia | 368 | 53.3 | 93 | 13.5 | 229 | 33.2 | 690 | 100.0 | – | 690 |
| Total Canada | 5,611 | 60.3 | 1,393 | 15.0 | 2,307 | 24.8 | 9,311 | 100.0 | 3 | 9,314 |

## Table A-9

**Legal Status of Part-time Doctoral Enrolment by Province and by University, 1978-79**

| Institution | Canadian Citizens | | Permanent Residents | | Foreign Students | | Sub-total | | Not Reported | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % | No. | No. |
| Memorial | 9 | 56.3 | 6 | 37.5 | 1 | 6.2 | 16 | 100.0 | - | 16 |
| Dalhousie | 23 | 74.2 | 4 | 12.9 | 4 | 12.9 | 31 | 100.0 | - | 31 |
| New Brunswick | 24 | 72.7 | 5 | 15.2 | 4 | 12.1 | 33 | 100.0 | - | 33 |
| McGill | 29 | 80.5 | 6 | 16.7 | 1 | 2.8 | 36 | 100.0 | - | 36 |
| Montreal | 466 | 76.1 | 89 | 14.5 | 57 | 9.3 | 612 | 100.0 | 132 | 744 |
| Laval | 197 | 86.0 | 21 | 9.2 | 11 | 4.8 | 229 | 100.0 | - | 229 |
| Concordia | 55 | 80.9 | 10 | 14.7 | 3 | 4.4 | 68 | 100.0 | - | 68 |
| Sub-total Quebec | 747 | 79.1 | 126 | 13.3 | 72 | 7.6 | 945 | 100.0 | 132 | 1,077 |
| Carleton | 66 | 79.5 | 10 | 12.1 | 7 | 8.4 | 83 | 100.0 | - | 83 |
| Guelph | 17 | 80.9 | 1 | 4.8 | 3 | 14.3 | 21 | 100.0 | - | 21 |
| McMaster | 68 | 70.1 | 21 | 21.7 | 8 | 8.2 | 97 | 100.0 | - | 97 |
| Ottawa | 168 | 78.5 | 20 | 9.4 | 26 | 12.1 | 214 | 100.0 | - | 214 |
| Queen's | 93 | 84.5 | 8 | 7.3 | 9 | 8.2 | 110 | 100.0 | 1 | 111 |
| Toronto | 453 | 73.0 | 113 | 18.2 | 55 | 8.8 | 621 | 100.0 | - | 621 |
| Waterloo | 86 | 71.1 | 23 | 19.0 | 12 | 9.9 | 121 | 100.0 | - | 121 |
| Western | 122 | 76.7 | 25 | 15.7 | 12 | 7.6 | 159 | 100.0 | - | 159 |
| Windsor | 27 | 77.1 | 5 | 14.3 | 3 | 8.6 | 35 | 100.0 | - | 35 |
| York | 105 | 75.0 | 26 | 18.6 | 9 | 6.4 | 140 | 100.0 | - | 140 |
| Sub-total Ontario | 1,208 | 75.3 | 252 | 15.7 | 144 | 9.0 | 1,604 | 100.0 | 1 | 1,605 |
| Manitoba | 78 | 75.7 | 19 | 18.5 | 6 | 5.8 | 103 | 100.0 | - | 103 |
| Saskatchewan | 27 | 67.5 | 7 | 17.5 | 6 | 15.0 | 40 | 100.0 | - | 40 |
| Regina | 8 | 53.3 | 7 | 46.7 | - | 0.0 | 15 | 100.0 | - | 15 |
| Sub-total Saskatchewan | 35 | 63.6 | 14 | 25.5 | 6 | 10.9 | 55 | 100.0 | - | 55 |
| Alberta | 123 | 72.8 | 37 | 21.9 | 9 | 5.3 | 169 | 100.0 | 1 | 170 |
| Calgary | 31 | 62.0 | 14 | 28.0 | 5 | 10.0 | 50 | 100.0 | - | 50 |
| Sub-total Alberta | 154 | 70.3 | 51 | 23.3 | 14 | 6.4 | 219 | 100.0 | 1 | 220 |
| British Columbia | 91 | 61.5 | 31 | 21.0 | 26 | 17.5 | 148 | 100.0 | - | 148 |
| Victoria | 7 | 87.5 | 1 | 12.5 | - | 0.0 | 8 | 100.0 | - | 8 |
| Sub-total British Columbia | 98 | 62.8 | 32 | 20.5 | 26 | 16.7 | 156 | 100.0 | - | 156 |
| Total Canada | 2,376 | 75.1 | 509 | 16.1 | 276 | 8.7 | 3,162 | 100.0 | 134 | 3,296 |

## Table A-10

### Legal Status of Part-time Doctoral Enrolment by Province and by University, 1979-80

| Institution | Canadian Citizens | | Permanent Residents | | Foreign Students | | Sub-total | | Not Reported | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % | No. | No. |
| Memorial | 6 | 42.9 | 7 | 50.0 | 1 | 7.1 | 14 | 100.0 | – | 14 |
| Dalhousie | 16 | 69.6 | 4 | 17.4 | 3 | 13.0 | 23 | 100.0 | – | 23 |
| New Brunswick | 17 | 65.4 | 4 | 15.4 | 5 | 19.2 | 26 | 100.0 | – | 26 |
| McGill | 29 | 72.5 | 7 | 17.5 | 4 | 10.0 | 40 | 100.0 | – | 40 |
| Montreal | 591 | 80.1 | 85 | 11.5 | 62 | 8.4 | 738 | 100.0 | 76 | 814 |
| Laval | 204 | 86.4 | 21 | 8.9 | 11 | 4.7 | 236 | 100.0 | – | 236 |
| Concordia | 45 | 72.6 | 12 | 19.4 | 5 | 8.0 | 62 | 100.0 | – | 62 |
| Sub-total Quebec | 869 | 80.8 | 125 | 11.6 | 82 | 7.6 | 1,076 | 100.0 | 76 | 1,152 |
| Carleton | 67 | 79.8 | 12 | 14.3 | 5 | 5.9 | 84 | 100.0 | – | 84 |
| Guelph | 6 | 54.5 | 4 | 36.4 | 1 | 9.1 | 11 | 100.0 | – | 11 |
| McMaster | 62 | 62.0 | 22 | 22.0 | 16 | 16.0 | 100 | 100.0 | – | 100 |
| Ottawa | 129 | 78.2 | 16 | 9.7 | 20 | 12.1 | 165 | 100.0 | – | 165 |
| Queen's | 90 | 89.1 | 6 | 5.9 | 5 | 5.0 | 101 | 100.0 | 1 | 102 |
| Toronto | 472 | 75.3 | 93 | 14.8 | 62 | 9.9 | 627 | 100.0 | – | 627 |
| Waterloo | 87 | 75.6 | 11 | 9.6 | 17 | 14.8 | 115 | 100.0 | – | 115 |
| Western | 125 | 76.2 | 25 | 15.2 | 14 | 8.5 | 164 | 100.0 | – | 164 |
| Windsor | 24 | 72.7 | 1 | 3.0 | 8 | 24.2 | 33 | 100.0 | – | 33 |
| York | 104 | 75.4 | 18 | 13.0 | 16 | 11.6 | 138 | 100.0 | – | 138 |
| Sub-total Ontario | 1,169 | 75.9 | 208 | 13.5 | 164 | 10.6 | 1,541 | 100.0 | 1 | 1,542 |
| Manitoba | 89 | 81.7 | 14 | 12.8 | 6 | 5.5 | 109 | 100.0 | – | 109 |
| Saskatchewan | 23 | 79.3 | 4 | 13.8 | 2 | 6.9 | 29 | 100.0 | – | 29 |
| Regina | 6 | 66.7 | 2 | 22.2 | 1 | 11.1 | 9 | 100.0 | – | 9 |
| Sub-total Saskatchewan | 29 | 76.3 | 6 | 15.8 | 3 | 7.9 | 38 | 100.0 | – | 38 |
| Alberta | 137 | 78.7 | 30 | 17.2 | 7 | 4.0 | 174 | 100.0 | – | 174 |
| Calgary | 24 | 63.2 | 8 | 21.0 | 6 | 15.8 | 38 | 100.0 | – | 38 |
| Sub-total Alberta | 161 | 75.9 | 38 | 17.9 | 13 | 6.2 | 212 | 100.0 | – | 212 |
| British Columbia | 68 | 61.8 | 12 | 10.9 | 30 | 27.3 | 110 | 100.0 | – | 110 |
| Victoria | 3 | 75.0 | 1 | 25.0 | – | 0.0 | 4 | 100.0 | – | 4 |
| Sub-total British Columbia | 71 | 62.3 | 13 | 11.4 | 30 | 26.3 | 114 | 100.0 | – | 114 |
| Total Canada | 2,427 | 77.0 | 419 | 13.3 | 307 | 9.7 | 3,153 | 100.0 | 77 | 3,230 |

## Table A-11

**Legal Status of Full-time Doctoral Enrolment by Province and by University, 1979-80**

| Institution | Canadian Citizens | | Permanent Residents | | Foreign Students | | Sub-total | | Not Reported | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % | No. | No. |
| Memorial | 26 | 44.8 | 6 | 10.3 | 26 | 44.8 | 58 | 100.0 | – | 58 |
| Dalhousie | 108 | 48.4 | 21 | 9.4 | 94 | 42.2 | 223 | 100.0 | – | 223 |
| New Brunswick | 39 | 50.6 | 5 | 6.5 | 33 | 42.9 | 77 | 100.0 | – | 77 |
| McGill | 577 | 58.2 | 184 | 18.6 | 231 | 23.3 | 992 | 100.0 | – | 992 |
| Montreal | 386 | 76.9 | 53 | 10.6 | 63 | 12.5 | 502 | 100.0 | – | 502 |
| Laval | 313 | 78.8 | 38 | 9.6 | 46 | 11.6 | 397 | 100.0 | – | 397 |
| Sherbrooke | 79 | 71.8 | 12 | 10.9 | 19 | 17.3 | 110 | 100.0 | – | 110 |
| Concordia | 69 | 66.4 | 10 | 9.6 | 25 | 24.0 | 104 | 100.0 | – | 104 |
| Sub-total Quebec | 1,424 | 67.7 | 297 | 14.1 | 384 | 18.2 | 2,105 | 100.0 | – | 2,105 |
| Carleton | 113 | 55.9 | 15 | 7.4 | 74 | 36.6 | 202 | 100.0 | – | 202 |
| Guelph | 104 | 64.2 | 17 | 10.5 | 41 | 25.3 | 162 | 100.0 | – | 162 |
| McMaster | 280 | 63.2 | 34 | 7.7 | 129 | 29.1 | 443 | 100.0 | – | 443 |
| Ottawa | 158 | 63.4 | 31 | 12.5 | 60 | 24.1 | 249 | 100.0 | – | 249 |
| Queen's | 206 | 68.9 | 18 | 6.0 | 75 | 25.1 | 299 | 100.0 | 1 | 300 |
| Toronto | 1,431 | 65.3 | 284 | 13.0 | 477 | 21.8 | 2,192 | 100.0 | – | 2,192 |
| Waterloo | 256 | 62.3 | 42 | 10.2 | 113 | 27.5 | 411 | 100.0 | – | 411 |
| Western | 273 | 68.4 | 34 | 8.5 | 92 | 23.1 | 399 | 100.0 | – | 399 |
| Windsor | 67 | 56.3 | 12 | 10.1 | 40 | 33.6 | 119 | 100.0 | – | 119 |
| York | 273 | 72.4 | 54 | 14.3 | 50 | 13.3 | 377 | 100.0 | – | 377 |
| Sub-total Ontario | 3,162 | 65.1 | 541 | 11.2 | 1,151 | 23.7 | 4,854 | 100.0 | 1 | 4,855 |
| Manitoba | 182 | 58.7 | 43 | 13.9 | 85 | 27.4 | 310 | 100.0 | – | 310 |
| Saskatchewan | 62 | 50.4 | 10 | 8.1 | 51 | 41.5 | 123 | 100.0 | – | 123 |
| Regina | 8 | 72.7 | 1 | 9.1 | 2 | 18.2 | 11 | 100.0 | – | 11 |
| Sub-total Saskatchewan | 70 | 52.2 | 11 | 9.2 | 53 | 39.6 | 134 | 100.0 | – | 134 |
| Alberta | 409 | 62.2 | 76 | 11.6 | 172 | 26.2 | 657 | 100.0 | – | 657 |
| Calgary | 103 | 44.4 | 39 | 16.8 | 90 | 38.8 | 232 | 100.0 | – | 232 |
| Sub-total Alberta | 512 | 57.6 | 115 | 12.9 | 262 | 29.5 | 889 | 100.0 | – | 889 |
| British Columbia | 447 | 58.6 | 88 | 11.5 | 228 | 29.9 | 763 | 100.0 | – | 763 |
| Victoria | 33 | 54.1 | 3 | 4.9 | 25 | 41.0 | 61 | 100.0 | – | 61 |
| Sub-total British Columbia | 480 | 58.3 | 91 | 11.0 | 253 | 30.7 | 824 | 100.0 | – | 824 |
| Total Canada | 6,003 | 63.4 | 1,130 | 11.9 | 2,341 | 24.7 | 9,464 | 100.0 | 1 | 9,475 |

Table A-12

## Legal Status of Full-time Doctoral Enrolment by Field of Study and Selected Disciplines by Sex, 1979-80

| Field of Study and Selected Disciplines | Canadian Citizens | | | Permanent Residents | | | Foreign Students | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T(no.) | M | F | T(no.) | M | F | T(no.) | M | F | T(no.) |
| Education | 49.8 | 50.2 | 640 | 46.3 | 53.7 | 108 | 64.2 | 35.8 | 134 | 51.6 | 48.4 | 882 |
| Fine & Applied Arts | 58.5 | 41.5 | 53 | 40.0 | 60.0 | 15 | 33.3 | 66.7 | 9 | 52.0 | 48.0 | 77 |
| Classics | 56.4 | 43.6 | 39 | 63.6 | 36.4 | 11 | 40.0 | 60.0 | 10 | 55.0 | 45.0 | 60 |
| English | 49.0 | 51.0 | 310 | 41.5 | 58.5 | 65 | 61.6 | 38.4 | 99 | 50.6 | 49.4 | 474 |
| French | 50.7 | 49.3 | 140 | 29.2 | 70.8 | 24 | 61.5 | 38.5 | 26 | 49.5 | 50.5 | 190 |
| Other Languages & Literature | 43.4 | 56.6 | 159 | 52.5 | 47.5 | 59 | 56.0 | 44.0 | 50 | 47.8 | 52.2 | 268 |
| History | 69.0 | 31.0 | 245 | 51.6 | 48.4 | 31 | 86.7 | 13.3 | 45 | 69.8 | 30.2 | 321 |
| Philosophy | 74.6 | 25.4 | 181 | 77.3 | 22.7 | 44 | 75.8 | 24.2 | 91 | 75.3 | 24.7 | 316 |
| Religious Studies | 79.8 | 20.2 | 104 | 66.7 | 33.3 | 21 | 80.0 | 20.0 | 25 | 78.0 | 22.0 | 150 |
| Other Humanities | 47.7 | 52.3 | 86 | 50.0 | 50.0 | 10 | 56.0 | 44.0 | 25 | 49.6 | 50.4 | 121 |
| Sub-total Humanities | 58.7 | 41.3 | 1,264 | 53.2 | 46.8 | 265 | 67.6 | 32.4 | 371 | 59.7 | 40.3 | 1,900 |
| Anthropology (incl. Archaeology) | 57.4 | 42.6 | 122 | 37.0 | 63.0 | 27 | 58.1 | 41.9 | 31 | 54.4 | 45.6 | 180 |
| Management & Admin. Studies | 79.4 | 20.6 | 97 | 88.0 | 12.0 | 25 | 92.3 | 7.7 | 26 | 83.1 | 16.9 | 148 |
| Economics | 83.4 | 16.6 | 235 | 70.2 | 29.8 | 47 | 90.1 | 9.9 | 192 | 84.8 | 15.2 | 474 |
| Geography | 78.5 | 21.5 | 79 | 77.8 | 22.2 | 18 | 82.3 | 17.7 | 62 | 79.9 | 20.1 | 159 |
| Law | 77.8 | 22.2 | 18 | 100.0 | 0.0 | 1 | 86.7 | 13.3 | 15 | 82.4 | 17.6 | 34 |
| Political Sciences | 78.1 | 21.9 | 128 | 77.4 | 22.6 | 31 | 85.7 | 14.3 | 56 | 80.0 | 20.0 | 215 |
| Psychology | 53.4 | 46.6 | 612 | 43.9 | 56.1 | 82 | 58.3 | 41.7 | 108 | 53.1 | 46.9 | 802 |
| Social Work | 55.6 | 44.4 | 27 | 44.4 | 55.6 | 9 | 0.0 | 0.0 | - | 52.8 | 47.2 | 36 |
| Sociology | 55.7 | 44.3 | 212 | 55.6 | 44.4 | 36 | 66.0 | 34.0 | 50 | 57.4 | 42.6 | 298 |
| Other Social Sc. | 63.2 | 36.8 | 68 | 41.2 | 58.8 | 17 | 57.3 | 42.7 | 82 | 58.1 | 41.9 | 167 |
| Sub-total Social Sciences | 64.0 | 36.0 | 1,398 | 58.4 | 41.6 | 293 | 75.6 | 24.4 | 622 | 66.2 | 33.8 | 2,513 |
| Total Human Sciences | 59.5 | 40.5 | 3,555 | 54.0 | 46.0 | 681 | 71.3 | 28.7 | 1,136 | 61.3 | 38.7 | 5,372 |
| Agriculture | 72.0 | 28.0 | 107 | 82.4 | 17.6 | 17 | 88.2 | 11.8 | 85 | 79.4 | 20.6 | 209 |
| Biology, Botany & Zoology | 74.8 | 25.2 | 460 | 71.2 | 28.8 | 59 | 78.1 | 21.9 | 137 | 75.2 | 24.8 | 656 |
| Other Biological Sciences | 68.4 | 31.6 | 95 | 35.7 | 64.3 | 14 | 80.0 | 20.0 | 30 | 67.6 | 32.4 | 139 |
| Sub-total Agric.& Biological Sciences | 73.4 | 26.6 | 662 | 67.8 | 32.2 | 90 | 81.8 | 18.2 | 252 | 75.0 | 25.0 | 1,004 |
| Engineering | 94.4 | 5.6 | 354 | 95.8 | 4.2 | 143 | 94.0 | 6.0 | 316 | 94.5 | 5.4 | 813 |
| Health Sciences | 66.8 | 33.2 | 497 | 62.7 | 37.3 | 59 | 71.4 | 28.6 | 84 | 67.0 | 33.0 | 640 |
| Mathematics | 86.7 | 13.3 | 143 | 89.3 | 10.7 | 28 | 83.6 | 16.4 | 116 | 85.7 | 14.3 | 287 |
| Chemistry | 83.6 | 16.4 | 312 | 82.2 | 17.8 | 45 | 86.9 | 13.1 | 206 | 84.7 | 15.3 | 563 |
| Geology | 88.8 | 11.2 | 107 | 92.9 | 7.1 | 14 | 92.6 | 7.4 | 81 | 90.6 | 9.4 | 202 |
| Physics | 93.4 | 6.6 | 257 | 75.0 | 25.0 | 32 | 94.2 | 5.8 | 85 | 92.0 | 8.0 | 374 |
| Other Mathematics & Physical Sc. | 90.2 | 9.8 | 102 | 92.9 | 7.1 | 14 | 89.5 | 10.5 | 76 | 90.1 | 9.9 | 192 |
| Sub-total Math. & Physical Sciences | 88.2 | 11.8 | 921 | 84.2 | 15.8 | 133 | 88.5 | 11.5 | 564 | 88.0 | 12.0 | 1,618 |
| Total Sciences | 80.7 | 19.3 | 2,434 | 81.6 | 18.4 | 425 | 87.3 | 12.7 | 1,216 | 82.8 | 17.2 | 4,075 |
| Total | 68.1 | 31.9 | 5,989 | 64.6 | 35.4 | 1,106 | 79.8 | 20.2 | 2,345 | 70.6 | 29.4 | 9,447 |
| Not Specified | 78.6 | 21.4 | 14 | 60.0 | 40.0 | 5 | 100.0 | 0.0 | 8 | 81.5 | 18.5 | 27 |
| Grand Total | 68.1 | 31.9 | 6,003 | 64.6 | 35.4 | 1,111 | 79.9 | 20.1 | 2,353 | 70.6 | 29.4 | 9,474 |

Table A-13

Legal Status of Part-time Doctoral Enrolment by Field of Study and Selected Disciplines by Sex, 1979-80

| Field of Study and Selected Disciplines | Canadian Citizens | | | Permanent Residents | | | Foreign Students | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T(no.) | M | F | T(no.) | M | F | T(no.) | M | F | T(no.) |
| Education | 62.0 | 38.0 | 531 | 45.3 | 54.7 | 53 | 71.0 | 29.0 | 31 | 61.0 | 39.0 | 615 |
| Fine & Applied Arts | 48.3 | 51.7 | 29 | 100.0 | 0.0 | 4 | 100.0 | 0.0 | 2 | 57.1 | 42.9 | 35 |
| Classics | 62.5 | 37.5 | 8 | 25.0 | 75.0 | 8 | 100.0 | 0.0 | 2 | 50.0 | 50.0 | 18 |
| English | 56.8 | 43.2 | 118 | 57.9 | 42.1 | 19 | 60.0 | 40.0 | 15 | 57.2 | 42.8 | 152 |
| French | 57.0 | 43.0 | 93 | 50.0 | 50.0 | 6 | 28.6 | 71.4 | 7 | 54.7 | 45.3 | 106 |
| Other Languages & Literature | 53.8 | 46.2 | 52 | 65.0 | 35.0 | 20 | 20.0 | 80.0 | 5 | 54.6 | 45.4 | 77 |
| History | 61.2 | 18.8 | 96 | 69.2 | 30.8 | 13 | 90.0 | 10.0 | 10 | 80.7 | 19.3 | 119 |
| Philosophy | 68.2 | 31.8 | 88 | 80.0 | 20.0 | 25 | 92.0 | 8.0 | 25 | 74.6 | 25.4 | 138 |
| Religious Studies | 83.6 | 16.4 | 55 | 100.0 | 0.0 | 12 | 83.3 | 16.7 | 12 | 86.1 | 13.9 | 79 |
| Other Humanities | 61.8 | 38.2 | 34 | 45.4 | 54.6 | 11 | 57.1 | 42.9 | 7 | 57.7 | 42.3 | 52 |
| Sub-total Humanities | 65.8 | 34.2 | 544 | 65.8 | 34.2 | 114 | 72.3 | 27.7 | 83 | 66.5 | 33.5 | 741 |
| Anthropology (incl. Archaeology) | 68.9 | 31.1 | 45 | 83.3 | 16.7 | 6 | 66.7 | 33.3 | 3 | 70.4 | 29.6 | 54 |
| Management & Admin. Studies | 92.6 | 7.4 | 27 | 71.4 | 28.6 | 7 | 100.0 | 0.0 | 10 | 90.9 | 9.1 | 44 |
| Economics | 85.4 | 14.6 | 89 | 92.9 | 7.1 | 14 | 91.7 | 8.3 | 24 | 87.4 | 12.6 | 127 |
| Geography | 91.7 | 8.3 | 36 | 100.0 | 0.0 | 6 | 100.0 | 0.0 | 4 | 93.5 | 6.5 | 46 |
| Law | 100.0 | 0.0 | 13 | 100.0 | 0.0 | 2 | 75.0 | 25.0 | 4 | 94.7 | 5.3 | 19 |
| Political Sciences | 75.4 | 24.6 | 69 | 70.0 | 30.0 | 10 | 75.0 | 25.0 | 12 | 74.7 | 25.3 | 91 |
| Psychology | 58.5 | 41.5 | 340 | 46.8 | 53.2 | 47 | 53.6 | 46.4 | 28 | 56.9 | 43.1 | 415 |
| Social Work | 53.8 | 46.2 | 13 | 100.0 | 0.0 | 2 | 100.0 | 0.0 | 2 | 64.7 | 35.3 | 17 |
| Sociology | 65.0 | 35.0 | 100 | 72.0 | 28.0 | 25 | 75.0 | 25.0 | 12 | 67.2 | 32.8 | 137 |
| Other Social Sc. | 78.3 | 21.7 | 23 | 70.0 | 30.0 | 10 | 42.9 | 57.1 | 14 | 66.0 | 34.0 | 47 |
| Sub-total Social Sciences | 68.7 | 31.3 | 755 | 67.4 | 32.6 | 129 | 72.6 | 27.4 | 113 | 69.0 | 31.0 | 997 |
| Total Human Sciences | 65.6 | 34.4 | 1,859 | 63.3 | 36.7 | 300 | 72.5 | 27.5 | 229 | 66.0 | 34.0 | 2,388 |
| Agriculture | 87.0 | 13.0 | 23 | 75.0 | 25.0 | 4 | 100.0 | 0.0 | 5 | 87.5 | 12.5 | 32 |
| Biology, Botany & Zoology | 68.2 | 31.8 | 44 | 84.6 | 15.4 | 13 | 100.0 | 0.0 | 7 | 75.0 | 25.0 | 64 |
| Other Biological Sciences | 83.3 | 16.7 | 6 | 0.0 | 0.0 | - | 100.0 | 0.0 | 1 | 85.7 | 14.3 | 7 |
| Sub-total Agric. & Biological Sc. | 75.3 | 24.7 | 73 | 82.4 | 17.6 | 17 | 100.0 | 0.0 | 13 | 79.6 | 20.4 | 103 |
| Engineering | 97.7 | 2.3 | 174 | 95.9 | 4.1 | 49 | 96.4 | 3.6 | 28 | 97.2 | 2.8 | 251 |
| Health Sciences | 67.4 | 32.6 | 98 | 69.2 | 30.8 | 13 | 75.0 | 25.0 | 8 | 68.1 | 31.9 | 119 |
| Mathematics | 85.4 | 14.6 | 41 | 71.4 | 28.6 | 7 | 100.0 | 0.0 | 8 | 85.7 | 14.3 | 56 |
| Chemistry | 88.2 | 11.8 | 51 | 100.0 | 0.0 | 4 | 66.7 | 33.3 | 9 | 85.9 | 14.1 | 64 |
| Geology | 92.3 | 7.7 | 39 | 92.9 | 7.1 | 14 | 100.0 | 0.0 | 5 | 93.1 | 6.9 | 58 |
| Physics | 94.7 | 5.3 | 57 | 80.0 | 20.0 | 5 | 100.0 | 0.0 | 6 | 94.1 | 5.9 | 68 |
| Other Math. & Physical Sc. | 90.3 | 9.7 | 31 | 100.0 | 0.0 | 4 | 100.0 | 0.0 | 6 | 92.7 | 7.3 | 41 |
| Sub-total Math. & Physical Sc. | 90.4 | 9.6 | 219 | 88.2 | 11.8 | 34 | 91.2 | 8.8 | 34 | 90.2 | 9.8 | 287 |
| Total Sciences | 86.7 | 13.3 | 564 | 88.5 | 11.5 | 113 | 92.8 | 7.2 | 83 | 87.6 | 12.4 | 760 |
| Total | 70.5 | 29.5 | 2,423 | 70.2 | 29.8 | 413 | 77.9 | 22.1 | 312 | 71.2 | 28.8 | 3,148 |
| Not Specified | 75.0 | 25.0 | 4 | 0.0 | 100.0 | 1 | 100.0 | 0.0 | 1 | 66.7 | 33.3 | 6 |
| Grand Total | 70.5 | 29.5 | 2,427 | 70.0 | 30.0 | 414 | 78.0 | 22.0 | 313 | 71.2 | 28.8 | 3,154 |

Table A-14

Citizenship of Full-time Doctoral Students by Field of Study, 1979-80

| Field of Study | Canada | USA | Caribbean | Central America | Africa | UK | Other Europe | Asia | Oceania | Others | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Education | 581 | 54 | 15 | 18 | 31 | 14 | 13 | 32 | 22 | 1 | 781 |
| Fine & Applied Arts | 50 | 13 | - | 1 | - | 1 | 3 | 1 | 2 | - | 71 |
| Humanities & related | 1,222 | 271 | 10 | 19 | 39 | 75 | 97 | 60 | 16 | 31 | 1,840 |
| Social Sciences | 1,517 | 324 | 12 | 31 | 85 | 66 | 101 | 182 | 20 | 70 | 2,408 |
| Total Human Sciences | 3,370 | 662 | 37 | 69 | 155 | 156 | 214 | 275 | 60 | 102 | 5,100 |
| Agric. & Biological Sc. | 656 | 95 | 5 | 17 | 52 | 36 | 24 | 89 | 14 | 6 | 994 |
| Engineering & Appl. Sciences | 354 | 6 | 4 | 33 | 144 | 15 | 48 | 189 | 13 | 5 | 811 |
| Health Sciences | 495 | 44 | 2 | 9 | 11 | 23 | 12 | 39 | 2 | 1 | 638 |
| Mathematics & Physical Sc. | 909 | 101 | 7 | 63 | 60 | 78 | 78 | 267 | 17 | 11 | 1,591 |
| Total Other Sciences | 2,414 | 246 | 18 | 122 | 267 | 152 | 162 | 584 | 46 | 23 | 4,034 |
| Specialization Not Reported | 14 | 1 | - | 1 | 2 | 1 | 1 | 5 | 2 | - | 27 |
| Total Full-time | 5,798 | 909 | 55 | 192 | 424 | 309 | 377 | 864 | 108 | 125 | 9,161 |
| Total Part-time | 2,380 | 254 | 15 | 31 | 58 | 53 | 119 | 99 | 20 | 129 | 3,158 |
| Grand Total | 8,178 | 1,163 | 70 | 223 | 482 | 362 | 496 | 963 | 128 | 254 | 12,319 |

# Table A-15

Earned Doctoral Degrees by Field of Study and Selected Disciplines, 1969-70 to 1979.

| | 1969-70 | 1970-71 | | 1971-72 | | 1972-73 | | 1974 | | 1975 | | 1976 | | 1977 | | 1978 | | 1979 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index | No. | Index |
| Education | 78 | 77 | 100 | 109 | 142 | 123 | 158 | 128 | 166 | 172 | 223 | 157 | 204 | 173 | 225 | 157 | 204 | 193 | 250 |
| Fine and Applied Arts | 3 | 6 | 100 | 6 | 100 | 5 | 83 | 4 | 67 | 7 | 117 | 5 | 83 | 11 | 183 | 7 | 117 | 11 | 183 |
| Classics | 4 | 3 | 100 | 14 | 467 | 7 | 233 | 7 | 233 | 7 | 233 | 10 | 333 | 3 | 100 | 7 | 233 | 11 | 367 |
| English | 50 | 49 | 100 | 48 | 98 | 64 | 128 | 66 | 132 | 79 | 161 | 79 | 161 | 67 | 137 | 74 | 151 | 82 | 167 |
| French | 15 | 18 | 100 | 20 | 111 | 21 | 117 | 25 | 139 | 27 | 150 | 19 | 106 | 34 | 189 | 18 | 100 | 27 | 150 |
| Other Languages and Literature | 22 | 28 | 100 | 17 | 61 | 23 | 82 | 42 | 150 | 32 | 114 | 33 | 118 | 35 | 125 | 37 | 132 | 29 | 104 |
| History | 29 | 36 | 100 | 49 | 136 | 35 | 97 | 47 | 131 | 61 | 169 | 55 | 153 | 52 | 144 | 48 | 133 | 54 | 150 |
| Philosophy | 22 | 34 | 100 | 31 | 91 | 43 | 126 | 50 | 147 | 44 | 129 | 33 | 97 | 35 | 103 | 48 | 141 | 56 | 165 |
| Religious Studies | 12 | 14 | 100 | 23 | 164 | 35 | 250 | 25 | 179 | 25 | 179 | 18 | 129 | 29 | 207 | 26 | 186 | 17 | 121 |
| Other Humanities | - | - | - | - | - | - | - | 2 | - | 2 | - | 1 | - | 1 | - | 1 | - | 15 | - |
| Sub-total Humanities | 154 | 182 | 100 | 202 | 111 | 228 | 125 | 264 | 145 | 277 | 152 | 248 | 136 | 256 | 141 | 259 | 142 | 291 | 160 |
| Anthropology (incl. Archaeology) | 6 | 7 | 100 | 4 | 57 | 10 | 143 | 15 | 214 | 9 | 129 | 22 | 314 | 15 | 214 | 24 | 343 | 23 | 329 |
| Management and Admin. Studies | 1 | 4 | 100 | 6 | 150 | 10 | 250 | 10 | 250 | 19 | 475 | 12 | 300 | 10 | 250 | 19 | 475 | 18 | 450 |
| Economics | 14 | 24 | 100 | 21 | 88 | 39 | 162 | 39 | 162 | 52 | 217 | 77 | 321 | 54 | 225 | 60 | 250 | 60 | 250 |
| Geography | 14 | 18 | 100 | 22 | 122 | 24 | 133 | 31 | 172 | 39 | 217 | 28 | 156 | 30 | 167 | 31 | 172 | 28 | 156 |
| Law | 3 | 15 | 100 | 10 | 67 | 5 | 33 | 4 | 27 | 7 | 47 | 9 | 60 | 5 | 33 | 4 | 27 | 6 | 40 |
| Political Sciences | 7 | 9 | 100 | 16 | 178 | 20 | 222 | 19 | 211 | 20 | 222 | 19 | 211 | 25 | 278 | 26 | 289 | 30 | 333 |
| Psychology | 86 | 119 | 100 | 109 | 92 | 121 | 102 | 133 | 112 | 148 | 124 | 153 | 129 | 142 | 119 | 169 | 142 | 154 | 129 |
| Social Work | 2 | 1 | 100 | 1 | 100 | 6 | 600 | 1 | 100 | 7 | 700 | 5 | 500 | 8 | 800 | 4 | 400 | 3 | 300 |
| Sociology | 6 | 9 | 100 | 15 | 166 | 23 | 255 | 31 | 344 | 41 | 455 | 46 | 511 | 43 | 477 | 57 | 633 | 49 | 544 |
| Other Social Sciences | 27 | 23 | 100 | 27 | 117 | 32 | 139 | 42 | 183 | 30 | 130 | 39 | 170 | 25 | 109 | 29 | 126 | 26 | 113 |
| Sub-total Social Sciences | 166 | 229 | 100 | 231 | 101 | 290 | 127 | 325 | 142 | 372 | 162 | 410 | 179 | 357 | 156 | 423 | 185 | 397 | 174 |
| Agriculture | 67 | 46 | 100 | 52 | 113 | 64 | 139 | 49 | 107 | 39 | 85 | 39 | 85 | 50 | 109 | 51 | 110 | 49 | 107 |
| Biology, Botany, and Zoology | 126 | 152 | 100 | 159 | 105 | 149 | 98 | 152 | 100 | 159 | 105 | 125 | 82 | 137 | 90 | 146 | 96 | 147 | 97 |
| Other Biological Sciences | 42 | 38 | 100 | 29 | 76 | 37 | 97 | 46 | 121 | 43 | 113 | 35 | 92 | 41 | 108 | 42 | 111 | 28 | 74 |
| Sub-total Agriculture & Biological Sciences | 235 | 236 | 100 | 240 | 102 | 250 | 106 | 247 | 105 | 241 | 102 | 199 | 84 | 228 | 97 | 239 | 101 | 224 | 95 |
| Engineering | 188 | 225 | 100 | 261 | 116 | 299 | 133 | 301 | 134 | 227 | 101 | 189 | 84 | 203 | 90 | 224 | 100 | 231 | 103 |
| Health Sciences | 95 | 142 | 100 | 151 | 106 | 178 | 125 | 153 | 108 | 122 | 86 | 105 | 74 | 105 | 74 | 125 | 88 | 134 | 94 |
| Mathematics | 61 | 85 | 100 | 97 | 114 | 113 | 133 | 101 | 118 | 92 | 108 | 75 | 88 | 98 | 115 | 91 | 107 | 61 | 72 |
| Chemistry | 209 | 241 | 100 | 221 | 92 | 225 | 93 | 200 | 83 | 167 | 69 | 155 | 64 | 117 | 49 | 133 | 55 | 110 | 46 |
| Geology | 37 | 38 | 100 | 43 | 113 | 39 | 102 | 30 | 79 | 34 | 89 | 48 | 126 | 47 | 124 | 53 | 139 | 46 | 121 |
| Physics | 123 | 136 | 100 | 132 | 97 | 150 | 110 | 129 | 95 | 108 | 79 | 91 | 67 | 88 | 65 | 95 | 70 | 88 | 65 |
| Other Mathematics & Physical Sciences | 6 | 28 | 100 | 31 | 111 | 30 | 107 | 14 | 50 | 21 | 75 | 11 | 39 | 19 | 68 | 13 | 46 | 17 | 61 |
| Sub-total Mathematics & Physical Sciences | 456 | 528 | 100 | 524 | 99 | 557 | 105 | 474 | 90 | 422 | 80 | 380 | 72 | 369 | 70 | 385 | 73 | 322 | 61 |
| Total | 1,375 | 1,625 | 100 | 1,724 | 106 | 1,929 | 119 | 1,896 | 117 | 1,840 | 113 | 1,693 | 104 | 1,702 | 105 | 1,819 | 112 | 1,803 | 111 |

Table A-16

DOCTORAL DEGREES GRANTED IN EDUCATION

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 5<br>(6.5) | 72<br>(93.5) | 77<br>(100.0) |
| 1971-72 | 12<br>(11.0) | 97<br>(89.0) | 109<br>(100.0) |
| 1972-73 | 23<br>(18.9) | 99<br>(81.1) | 122<br>(100.0) |
| 1974 | 17<br>(13.3) | 111<br>(86.7) | 128<br>(100.0) |
| 1975 | 50<br>(29.1) | 122<br>(70.9) | 172<br>(100.0) |
| 1976 | 46<br>(29.3) | 111<br>(70.7) | 157<br>(100.0) |
| 1977 | 42<br>(24.3) | 131<br>(75.7) | 173<br>(100.0) |
| 1978 | 39<br>(24.8) | 118<br>(75.2) | 157<br>(100.0) |
| 1979 | 56<br>(29.0) | 137<br>(71.0) | 193<br>(100.0) |
| 9 Year Total | 290<br>(22.5) | 998<br>(77.5) | 1288<br>(100.0) |

Table A-17

DOCTORAL DEGREES GRANTED IN CLASSICS

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | -<br>(0.0 | 3<br>(100.0) | 3<br>(100.0) |
| 1971-72 | 4<br>(28.6) | 10<br>(71.4) | 14<br>(100.0) |
| 1972-73 | 2<br>(28.6) | 5<br>(71.4) | 7<br>(100.0) |
| 1974 | 1<br>(14.3) | 6<br>(85.7) | 7<br>(100.0) |
| 1975 | -<br>(0.0) | 7<br>(100.0) | 7<br>(100.0) |
| 1976 | 3<br>(30.0) | 7<br>(70.0) | 10<br>(100.0) |
| 1977 | -<br>(0.0) | 3<br>(100.0) | 3<br>(100.0) |
| 1978 | 2<br>(28.6) | 5<br>(71.4) | 7<br>(100.0) |
| 1979 | - | - | - |
| 9 Year Total | 12<br>(20.7) | 46<br>(79.3) | 58<br>(100.0) |

Table A-18

DOCTORAL DEGREES GRANTED IN ENGLISH

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 12<br>(24.5) | 37<br>(75.5) | 49<br>(100.0) |
| 1971-72 | 11<br>(22.9) | 37<br>(77.1) | 48<br>(100.0) |
| 1972-73 | 17<br>(26.6) | 47<br>(73.4) | 64<br>(100.0) |
| 1974 | 20<br>(30.3) | 46<br>(69.7) | 66<br>(100.0) |
| 1975 | 21<br>(26.6) | 58<br>(73.4) | 79<br>(100.0) |
| 1976 | 35<br>(44.3) | 44<br>(55.7) | 79<br>(100.0) |
| 1977 | 29<br>(43.3) | 38<br>(56.7) | 79<br>(100.0) |
| 1978 | 33<br>(44.6) | 41<br>(55.4) | 74<br>(100.0) |
| 1979 | 32<br>(39.0) | 50<br>(61.0) | 82<br>(100.0) |
| 9 Year Total | 210<br>(34.5) | 398<br>(65.5) | 608<br>(100.0) |

Table A-19

DOCTORAL DEGREES GRANTED IN FRENCH

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 7<br>(38.9) | 11<br>(61.1) | 18<br>(100.0) |
| 1971-72 | 7<br>(35.00) | 13<br>(65.0) | 20<br>(100.0) |
| 1972-73 | 11<br>(52.4) | 10<br>(47.6) | 21<br>(100.0) |
| 1974 | 9<br>(36.0) | 16<br>(64.0) | 25<br>(100.0) |
| 1975 | 11<br>(40.7) | 16<br>(59.3) | 27<br>(100.0) |
| 1976 | 12<br>(63.2) | 7<br>(36.8) | 19<br>(100.0) |
| 1977 | 16<br>(47.1) | 18<br>(52.9) | 34<br>(100.0) |
| 1978 | 6<br>(33.3) | 12<br>(66.7) | 18<br>(100.0) |
| 1979 | 11<br>(40.7) | 16<br>(59.3) | 27<br>(100.0) |
| 9 Year Total | 90<br>(43.1) | 119<br>(56.9) | 209<br>(100.0) |

Table A-20

DOCTORAL DEGREES GRANTED IN HISTORY

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 4<br>(11.1) | 32<br>(88.9) | 36<br>(100.0) |
| 1971-72 | 3<br>(6.1) | 46<br>(93.9) | 49<br>(100.0) |
| 1972-73 | 1<br>(2.9) | 34<br>(97.1) | 35<br>(100.0) |
| 1974 | 7<br>(14.9) | 40<br>(85.1) | 47<br>(100.0) |
| 1975 | 7<br>(11.5) | 54<br>(88.5) | 61<br>(100.0) |
| 1976 | 11<br>(20.0) | 44<br>(80.0) | 55<br>(100.0) |
| 1977 | 14<br>(26.9) | 38<br>(73.1) | 52<br>(100.0) |
| 1978 | 8<br>(16.7) | 40<br>(83.3) | 48<br>(100.0) |
| 1979 | 14<br>(25.9) | 40<br>(74.1) | 54<br>(100.0) |
| 9 Year Total | 69<br>(15.8) | 368<br>(84.2) | 437<br>(100.0) |

Table A-21

DOCTORAL DEGREES GRANTED IN PHILOSOPHY

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 3<br>(9.4) | 29<br>(90.6) | 32<br>(100.0) |
| 1971-72 | 5<br>(16.1) | 26<br>(83.9) | 31<br>(100.0) |
| 1972-73 | 4<br>(9.3) | 39<br>(90.7) | 43<br>(100.0) |
| 1974 | 8<br>(16.0) | 42<br>(84.0) | 50<br>(100.0) |
| 1975 | 9<br>(20.5) | 35<br>(79.5) | 44<br>(100.0) |
| 1976 | 8<br>(24.2) | 25<br>(75.8) | 33<br>(100.0) |
| 1977 | 3<br>(8.6) | 32<br>(91.4) | 35<br>(100.0) |
| 1978 | 9<br>(18.8) | 39<br>(81.2) | 48<br>(100.0) |
| 1979 | 13<br>(23.2 | 43<br>(76.8) | 56<br>(100.0) |
| 9 Year Total | 62<br>(16.7) | 310<br>(83.3) | 372<br>(100.0) |

Table A-22

DOCTORAL DEGREES GRANTED IN RELIGIOUS STUDIES

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 2<br>(14.3) | 12<br>(85.7) | 14<br>(100.0) |
| 1971-72 | 3<br>(13.0) | 20<br>(87.0) | 23<br>(100.0) |
| 1972-73 | 2<br>(5.7) | 33<br>(94.3) | 35<br>(100.0) |
| 1974 | 1<br>(4.0) | 24<br>(96.0) | 25<br>(100.0) |
| 1975 | -<br>(0.0) | 25<br>(100.0) | 25<br>(100.0) |
| 1976 | 2<br>(11.1) | 16<br>(88.9) | 18<br>(100.0) |
| 1977 | 6<br>(20.7) | 23<br>(79.3) | 29<br>(100.0) |
| 1978 | 3<br>(11.5) | 23<br>(88.5) | 26<br>(100.0) |
| 1979 | 3<br>(30.0) | 7<br>(70.0) | 10<br>(100.0) |
| 9 Year Total | 22<br>(10.7) | 183<br>(89.3) | 205<br>(100.0) |

Table A-23

DOCTORAL DEGREES GRANTED IN ANTHROPOLOGY*

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | - (0.0) | 7 (100.0) | 7 (100.0) |
| 1971-72 | - (0.0) | 4 (100.0) | 4 (100.0) |
| 1972-73 | 4 (40.0) | 6 (60.0) | 10 (100.0) |
| 1974 | 2 (13.3) | 13 (86.7) | 15 (100.0) |
| 1975 | 4 (44.4) | 5 (55.6) | 9 (100.0) |
| 1976 | 4 (18.2) | 18 (81.8) | 22 (100.0) |
| 1977 | 7 (46.7) | 8 (53.3) | 15 (100.0) |
| 1978 | 5 (20.8) | 19 (79.2) | 24 (100.0) |
| 1979 | 8 (34.8) | 15 (65.2) | 23 (100.0) |
| 9 Year Total | 34 (26.4) | 95 (73.6) | 129 (100.0) |

* includes Archaeology

Table A-24

DOCTORAL DEGREES GRANTED IN ECONOMICS

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 2<br>(8.3) | 22<br>(91.7) | 24<br>(100.0) |
| 1971-72 | 3<br>(14.3) | 18<br>(85.7) | 21<br>(100.0) |
| 1972-73 | -<br>(0.0) | 39<br>(100.0) | 39<br>(100.0) |
| 1974 | 4<br>(10.3) | 35<br>(89.7) | 39<br>(100.0) |
| 1975 | 4<br>(7.7) | 48<br>(92.3) | 52<br>(100.0) |
| 1976 | 5<br>(6.5) | 72<br>(93.5) | 77<br>(100.0) |
| 1977 | 6<br>(11.1) | 48<br>(88.9) | 54<br>(100.0) |
| 1978 | 7<br>(11.7) | 53<br>(88.3) | 60<br>(100.0) |
| 1979 | 8<br>(13.3) | 52<br>(86.7) | 60<br>(100.0) |
| 9 Year Total | 39<br>(9.2) | 387<br>(90.8) | 426<br>(100.0) |

Table A-25

DOCTORAL DEGREES GRANTED IN GEOGRAPHY

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | - (0.0) | 18 (100.0) | 18 (100.0) |
| 1971-72 | 2 (9.1) | 20 (90.9) | 22 (100.0) |
| 1972-73 | 2 (8.3) | 22 (91.7) | 24 (100.0) |
| 1974 | 2 (6.5) | 29 (93.5) | 31 (100.0) |
| 1975 | 3 (7.7) | 36 (92.3) | 39 (100.0) |
| 1976 | 2 (7.1) | 26 (92.9) | 28 (100.0) |
| 1977 | 2 (6.7) | 28 (93.3) | 30 (100.0) |
| 1978 | 2 (6.5) | 29 (93.5) | 31 (100.0) |
| 1979 | 3 (10.7) | 25 (89.3) | 28 (100.0) |
| 9 Year Total | 18 (7.2) | 233 (92.8) | 251 (100.0) |

Table A-26

DOCTORAL DEGREES GRANTED IN POLITICAL SCIENCE

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | -<br>(0.0) | 9<br>(100.0) | 9<br>(100.0) |
| 1971-72 | 3<br>(18.8) | 13<br>(81.2) | 16<br>(100.0) |
| 1972-73 | 4<br>(20.0) | 16<br>(80.0) | 20<br>(100.0) |
| 1974 | 2<br>(10.5) | 17<br>(89.5) | 19<br>(100.0) |
| 1975 | 2<br>(10.0) | 18<br>(90.0) | 20<br>(100.0) |
| 1976 | 2<br>(10.5) | 17<br>(89.5) | 19<br>(100.0) |
| 1977 | 2<br>(8.0) | 23<br>(92.0) | 25<br>(100.0) |
| 1978 | 4<br>(15.4) | 22<br>(84.6) | 26<br>(100.0) |
| 1979 | 4<br>(13.3) | 26<br>(86.7) | 30<br>(100.0) |
| 9 Year Total | 23<br>(12.5) | 161<br>(87.5) | 184<br>(100.0) |

Table A-27

DOCTORAL DEGREES GRANTED IN PSYCHOLOGY

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 27<br>(22.7) | 92<br>(77.3) | 119<br>(100.0) |
| 1971-72 | 17<br>(15.6) | 92<br>(84.4) | 109<br>(100.0) |
| 1972-73 | 28<br>(23.1) | 93<br>(76.9) | 121<br>(100.0) |
| 1974 | 33<br>(24.8) | 100<br>(75.2) | 133<br>(100.0) |
| 1975 | 37<br>(25.0) | 111<br>(75.0) | 148<br>(100.0) |
| 1976 | 45<br>(29.4) | 108<br>(70.6) | 153<br>(100.0) |
| 1977 | 43<br>(30.3) | 99<br>(69.7) | 142<br>(100.0) |
| 1978 | 55<br>(32.5) | 114<br>(67.5) | 169<br>(100.0) |
| 1979 | 47<br>(30.5) | 107<br>(69.5) | 154<br>(100.0) |
| 9 Year Total | 332<br>(26.6 | 916<br>(73.4) | 1,248<br>(100.0) |

Table A-28

DOCTORAL DEGREES GRANTED IN SOCIAL WORK

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | - (0.0) | 1 (100.0) | 1 (100.0) |
| 1971-72 | - (0.0) | 1 (100.0) | 1 (100.0) |
| 1972-73 | 1 (16.7) | 5 (83.3) | 6 (100.0) |
| 1974 | 1 (100.0) | - (0.0) | 1 (100.0) |
| 1975 | 3 (42.9) | 4 (57.1) | 7 (100.0) |
| 1976 | 1 (20.0) | 4 (80.0) | 5 (100.0) |
| 1977 | 2 (25.0) | 6 (75.0) | 8 (100.0) |
| 1978 | 1 (25.0) | 3 (75.0) | 4 (100.0) |
| 1979 | 1 (33.3) | 2 (66.7) | 3 (100.0) |
| 9 Year Total | 10 (27.8) | 26 (72.2) | 36 (100.0) |

Table A-29

DOCTORAL DEGREES GRANTED IN SOCIOLOGY

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 2<br>(22.2) | 7<br>(77.8) | 9<br>(100.0) |
| 1971-72 | 1<br>((6.7) | 14<br>(93.3) | 15<br>(100.0) |
| 1972-73 | 5<br>(21.7) | 18<br>(78.3) | 23<br>(100.0) |
| 1974 | 7<br>(22.6) | 24<br>(77.4) | 31<br>(100.0) |
| 1975 | 7<br>(17.1) | 34<br>(82.9) | 41<br>(100.0) |
| 1976 | 11<br>(23.9) | 35<br>(76.1) | 46<br>(100.0) |
| 1977 | 12<br>(27.9) | 31<br>(72.1) | 43<br>(100.0) |
| 1978 | 20<br>(35.1) | 37<br>(64.9) | 57<br>(100.0) |
| 1979 | 19<br>(38.8) | 30<br>(61.2) | 49<br>(100.0) |
| 9 Year Total | 84<br>(26.8) | 230<br>(73.2) | 314<br>(100.0) |

Table A-30

DOCTORAL DEGREES GRANTED IN AGRICULTURE

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 2<br>(4.3) | 44<br>(95.7) | 46<br>(100.0) |
| 1971-72 | 4<br>(7.7) | 48<br>(92.3) | 52<br>(100.0) |
| 1972-73 | 2<br>(3.1) | 62<br>(96.9) | 64<br>(100.0) |
| 1974 | 2<br>(4.1) | 47<br>(95.9) | 49<br>(100.0) |
| 1975 | 4<br>(10.3) | 35<br>(89.7) | 39<br>(100.0) |
| 1976 | 3<br>(7.7) | 36<br>(92.3) | 39<br>(100.0) |
| 1977 | 3<br>(6.0) | 47<br>(94.0) | 50<br>(100.0) |
| 1978 | 5<br>(9.8) | 46<br>(90.2) | 51<br>(100.0) |
| 1979 | 4<br>(8.2) | 45<br>(91.8) | 49<br>(100.0) |
| 9 Year Total | 29<br>(6.6) | 410<br>(93.4) | 439<br>(100.0) |

Table A-31

DOCTORAL DEGREES GRANTED IN PHARMACY

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | - (0.0) | 1 (100.0) | 1 (100.0) |
| 1971-72 | - (0.0) | 7 (100.0) | 7 (100.0) |
| 1972-73 | 3 (30.0) | 7 (70.0) | 10 (100.0) |
| 1974 | - (0.0) | 5 (100.0) | 5 (100.0) |
| 1975 | 2 (28.6) | 5 (71.4) | 7 (100.0) |
| 1976 | - (0.0) | 2 (100.0) | 2 (100.0) |
| 1977 | 2 (33.3) | 4 (66.7) | 6 (100.0) |
| 1978 | 1 (33.3) | 2 (66.7) | 3 (100.0) |
| 1979 | 1 (14.3) | 6 (85.7) | 7 (100.0) |
| 9 Year Total | 9 (18.8) | 39 (81.2) | 48 (100.0) |

Table A-32

DOCTORAL DEGREES GRANTED IN MATHEMATICS*

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 4<br>(5.6) | 68<br>(94.4) | 72<br>(100.0) |
| 1971-72 | 4<br>(4.1) | 93<br>(95.9) | 97<br>(100.0) |
| 1972-73 | 2<br>(1.8) | 111<br>(98.2) | 113<br>(100.0) |
| 1974 | 6<br>(5.9) | 95<br>(94.1) | 101<br>(100.0) |
| 1975 | 6<br>(6.5) | 86<br>(93.5) | 92<br>(100.0) |
| 1976 | 10<br>(13.3) | 65<br>(86.7) | 75<br>(100.0) |
| 1977 | 13<br>(13.3) | 85<br>(86.7) | 98<br>(100.0) |
| 1978 | 6<br>(6.6) | 85<br>(93.4) | 91<br>(100.0) |
| 1979 | 4<br>(8.5) | 43<br>(91.5) | 47<br>(100.0) |
| 9 Year Total | 55<br>(7.0) | 731<br>(93.0) | 786<br>(100.0) |

* includes applied mathematics and statistics

Table A-33

DOCTORAL DEGREES GRANTED IN CHEMISTRY

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 22<br>(9.1) | 219<br>(90.9) | 241<br>(100.0) |
| 1971-72 | 13<br>(5.9) | 208<br>(94.1) | 221<br>(100.0) |
| 1972-73 | 17<br>(7.6) | 208<br>(92.4) | 225<br>(100.0) |
| 1974 | 14<br>(7.0) | 186<br>(93.0) | 200<br>(100.0) |
| 1975 | 17<br>(10.2) | 150<br>(89.8) | 167<br>(100.0) |
| 1976 | 14<br>(9.0) | 141<br>(91.0) | 155<br>(100.0) |
| 1977 | 14<br>(12.0) | 103<br>(88.0) | 117<br>(100.0) |
| 1978 | 18<br>(13.5) | 115<br>(86.5) | 133<br>(100.0) |
| 1979 | 16<br>(14.6) | 94<br>(85.4) | 110<br>(100.0) |
| 9 Year Total | 145<br>(9.2) | 1424<br>(90.8) | 1569<br>(100.0) |

Table A-34

DOCTORAL DEGREES GRANTED IN GEOLOGY

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 1<br>(2.6) | 37<br>(97.4) | 38<br>(100.0) |
| 1971-72 | -<br>(0.0) | 43<br>(100.0) | 43<br>(100.0) |
| 1972-73 | 1<br>(2.6) | 38<br>(97.4) | 39<br>(100.0) |
| 1974 | -<br>(0.0) | 30<br>(100.0) | 30<br>(100.0) |
| 1975 | 1<br>(2.9) | 33<br>(97.1) | 34<br>(100.0) |
| 1976 | 2<br>(4.2) | 46<br>(95.8) | 48<br>(100.0) |
| 1977 | 4<br>(8.5) | 43<br>(91.5) | 47<br>(100.0) |
| 1978 | 4<br>(7.5) | 49<br>(92.5) | 50<br>(100.0) |
| 1979 | 3<br>(6.5) | 43<br>(93.5) | 46<br>(100.0) |
| 9 Year Total | 16<br>(4.2) | 362<br>(95.8) | 378<br>(100.0) |

Table A-35

DOCTORAL DEGREES GRANTED IN PHYSICS

1970-71 to 1979

| Year | Female | Male | Total |
|---|---|---|---|
| 1970-71 | 6<br>(4.7) | 122<br>(95.3) | 128<br>(100.0) |
| 1971-72 | 3<br>(2.3) | 129<br>(97.7) | 132<br>(100.0) |
| 1972-73 | 3<br>(2.0) | 147<br>(98.0) | 150<br>(100.0) |
| 1974 | 8<br>(6.2) | 121<br>(93.8) | 129<br>(100.0) |
| 1975 | 4<br>(3.7) | 104<br>(96.3) | 108<br>(100.0) |
| 1976 | 2<br>(2.2) | 89<br>(97.8) | 91<br>(100.0) |
| 1977 | 3<br>(3.4) | 85<br>(96.6) | 88<br>(100.0) |
| 1978 | 5<br>(5.3) | 90<br>(94.7) | 95<br>(100.0) |
| 1979 | 6<br>(6.8) | 82<br>(93.2) | 88<br>(100.0) |
| 9 Year Total | 40<br>(4.0) | 969<br>(96.0) | 1,009<br>(100.0) |